

DARIEN, CONNECTICUT

PEAR TREE BEACH PARK IMPROVEMENTS

139 PEAR TREE POINT ROAD, DARIEN, CONNECTICUT 06820

GENERAL NOTES

1. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION AND COORDINATE WITH OTHERS AS REQUIRED.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON SITE. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE IMMEDIATELY COMMUNICATED TO THE OWNER'S REPRESENTATIVE. ANY FAILURE TO VERIFY THE GRADES PRIOR TO CONSTRUCTION SHALL BE AT THE RISK AND COST OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE STAKE LAYOUT OF PROPOSED IMPROVEMENTS FOR OWNER'S REPRESENTATIVE REVIEW AND APPROVAL BEFORE COMMENCING WITH ANY GROUND DISTURBANCE.
4. THE CONTRACTOR SHALL VERIFY PROPOSED GRADES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS FOR THE WORK FROM ANY UTILITY COMPANIES OR OTHER GOVERNING BODIES HAVING JURISDICTION OVER THE WORK OUTLINED IN THESE DRAWINGS.
6. THE CONTRACTOR SHALL ESTABLISH PERMANENT SECONDARY BENCHMARKS PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE SO LOCATED THAT THEY WILL NOT BE DISTURBED BY CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO ROADWAYS.
8. THE CONTRACTOR SHALL PROVIDE DUST AND EROSION/SEDIMENT CONTROL AS PER SPECIFICATIONS AND/OR AS APPROVED BY OWNER'S REPRESENTATIVE.
9. PRIOR TO GROUND DISTURBANCE, THE CONTRACTOR SHALL INSTALL AND REGULARLY MAINTAIN, AS REQUIRED, ANY AND ALL SILTATION CONTROL MEASURES AND MONITOR THE CONTROL DEVICES AT LEAST ONCE A WEEK TO ENSURE THEIR EFFECTIVENESS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY MEANS OF CONVEYANCE FOR STORM SEWER SYSTEM DISRUPTED DURING CONSTRUCTION, UNTIL SUCH A TIME THAT THE NEW STORM SEWER SYSTEM IS COMPLETE. ALL STORM WATER SHALL BE DISCHARGED OUTSIDE THE CONSTRUCTION AREA IN AN ACCEPTABLE LOCATION THAT WILL NOT ALLOW SEDIMENT TRANSFER TO WETLANDS OR WATER BODIES OR CAUSE PONDING AND/OR FLOODING. THE CONTRACTOR SHALL STABILIZE DISTURBED SLOPES IMMEDIATELY TO PREVENT EROSION FROM OCCURRING WITH AN APPROPRIATE EROSION CONTROL MEASURE. SEE SPECIFICATIONS. IF SLOPE EROSION IS OBSERVED, REPAIR IMMEDIATELY.
11. ALL FILL SLOPES 3:1 OR GREATER SHALL RECEIVE BIODEGRADABLE FABRIC OR APPROVED EQUAL FOR EROSION CONTROL, UNLESS OTHERWISE SHOWN OR DIRECTED BY OWNER'S REPRESENTATIVE.
12. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL AREAS DISTURBED AND/OR DAMAGED FROM CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, LAWNS, WALKS, PAVEMENTS, ETC.. IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE PHOTO LOGS OF ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION FOR HIS/HER RECORDS.
14. CONSTRUCTION AND/OR DISTURBANCE SHALL NOT EXTEND BEYOND OWNER'S PROPERTY WITHOUT WRITTEN PERMISSION/PERMIT(S) FROM ADJACENT LANDOWNERS.
15. THE CONTRACTOR SHALL LOCATE AND MARK UNDERGROUND FACILITIES AND MAINTAIN MARKING DURING CONSTRUCTION.
16. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCING WORK.
17. THE CONTRACTOR SHALL ESTABLISH A FLOOD CONTINGENCY PLAN TO BE IMPLEMENTED DURING THE CONSTRUCTION PERIOD WHEN A FLOOD EVENT IS FORECASTED. PLAN SHALL AT A MINIMUM INCLUDE MEASURES TO SECURE MATERIALS ON SITE, REMOVAL OF MATERIALS THAT CANNOT BE SECURED, SUCH AS LOOSE STOCKPILE MATERIAL, FROM THE SITE, AND SAFETY MEASURES TO BE IMPLEMENTED DURING FLOOD EVENTS.

CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION LICENSE

CERTIFICATE OF PERMISSION

LICENSE: 202207720-COP

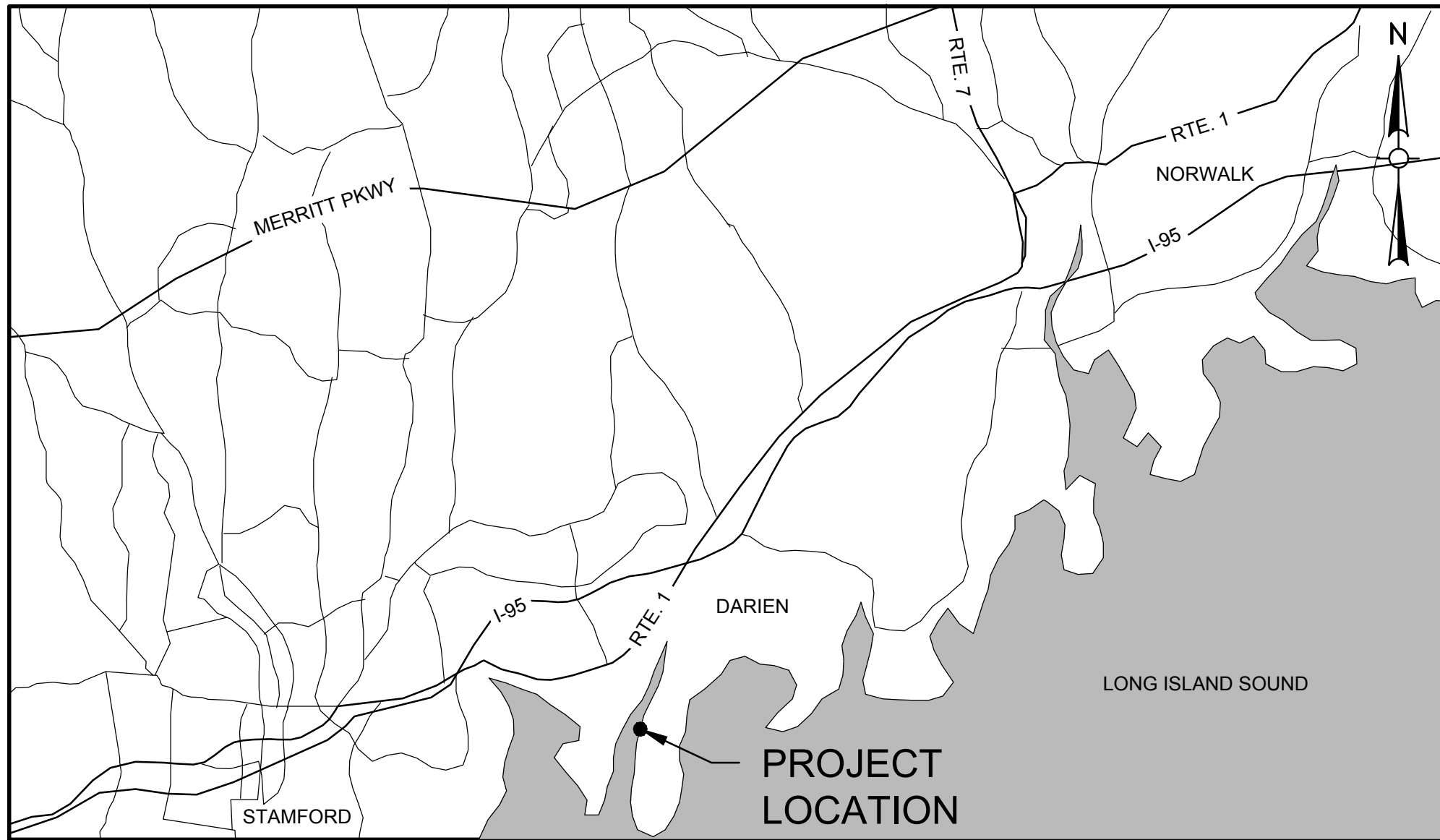
TIME OF YEAR RESTRICTIONS:

- UNCONFINED IN-WATER EXCAVATION, DREDGING, FILLING OR REMOVAL OF DEBRIS OR OTHER MATERIAL IS PROHIBITED BETWEEN FEBRUARY 1ST AND MAY 15TH IN ORDER TO PROTECT WINTER FLOUNDER, AND BETWEEN JULY 1ST AND AUGUST 30TH IN ORDER TO PROTECT SPAWNING SHELLFISH, INCLUSIVE, OF ANY YEAR UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE COMMISSIONER.



VICINITY MAP

1" = 400'



LOCATION MAP

N.T.S.

PROFESSIONAL CERTIFICATIONS		
SEALS	CERTIFYING PROFESSIONAL	DRAWINGS
	DANIEL P. BIGGS, RLA, ISA, CERP REGISTERED LANDSCAPE ARCHITECT CT LICENSE NO. 13280 WESTON & SAMPSON 1 WINNERS CIRCLE, SUITE 130 ALBANY, NY 12205	C101 - EXISTING CONDITIONS PLAN C102 - SITE LAYOUT AND MATERIALS PLAN C104 - SITE PLANTING PLAN C105 - EROSION AND SEDIMENT CONTROL PLAN C501 - EROSION AND SEDIMENT CONTROL DETAILS C502 - PAVING & CURBING DETAILS C503 - FENCING & SIGNAGE DETAILS C504 - BOAT LAUNCH DETAILS C505 - UTILITY DETAILS C506 - PLANTING AND LANDSCAPING DETAILS
	JOSEPH S. PERUGINI, PE REGISTERED PROFESSIONAL ENGINEER CT LICENSE NO. 24027 WESTON & SAMPSON 712 BROOK STREET, SUITE 103 ROCKY HILL, CT 06067	C103 - SITE GRADING AND UTILITY PLAN C106 - DREDGING PLAN C301 - TYPICAL SECTIONS



Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
www.westonandsampson.com

Consultants:

Owner Contact Information:
Town of Darien, CT
Jennifer Fava, MBA, CPRP - Director of Parks & Recreation
2 Renshaw Road
Darien, CT 06820
Email: jfava@darienct.gov
Tel.: (203) 656-7325

Consultant Contact Information
Weston & Sampson Engineers, Inc.
Daniel Biggs, RLA - Regional Manager
712 Brook Street, Suite 103
Rocky Hill, CT 06067
Email: biggsd@wselnc.com
Tel.: (518) 463-4400

Sheet List Table

Sheet Number	Sheet Title
G000	COVER SHEET
C101	EXISTING CONDITIONS AND DEMOLITION PLAN
C102	SITE LAYOUT AND MATERIALS PLAN
C103	SITE GRADING AND UTILITY PLAN
C104	SITE PLANTING PLAN
C105	EROSION AND SEDIMENT CONTROL PLAN
C106	DREDGING PLAN
C301	TYPICAL SECTIONS
C501	EROSION AND SEDIMENT CONTROL DETAILS
C502	PAVING & CURBING DETAILS
C503	FENCING & SIGNAGE DETAILS
C504	BOAT LAUNCH DETAILS
C505	UTILITY DETAILS
C506	PLANTING AND LANDSCAPING DETAILS

Issued Date:

JULY 3, 2025



Know what's below.
Call before you dig.

Issued For:

ISSUED FOR CONSTRUCTION

COA:

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1. SURVEY PERFORMED BY EDWARD J. FRATTAROLI, INC. LAND SURVEYORS - ENGINEERS - LAND PLANNERS DATED 10-28-19, LAST REVISED 2-15-21.
2. VERTICAL DATUM IS NAVD-88.
3. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPORTED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL RECORDS AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO EDWARD J. FRATTAROLI, INC. THE SITE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES BY CALLING CALL-BEFORE-YOU-DIG AT 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO CROSSING THEIR LINES.
5. NO ABSTRACT OF TITLE PROVIDED.
6. PROPERTY LIES IN FLOOD ZONE VE (ELEVATION 15') AND FLOOD ZONE AE (ELEVATION 14') AS DEPICTED HEREON. REFER TO FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, CONNECTICUT, TOWN OF DAREN MAP NO. 09001C05366 EFFECTIVE JULY 8, 2013.
7. IF SITE IS DISTURBED PRIOR TO CATCH BASIN REMOVAL, THEN EXISTING CATCH BASINS SHALL BE FITTED WITH INLET PROTECTION DEVICES.

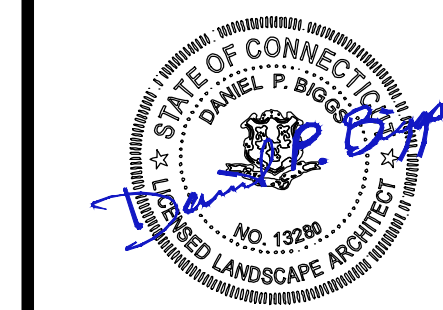


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Seal:



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Date: JULY 3, 2025

Drawn By: ALP

Reviewed By: JWG

W&S Project No.: 21900362
W&S File No.:

Drawing Title:

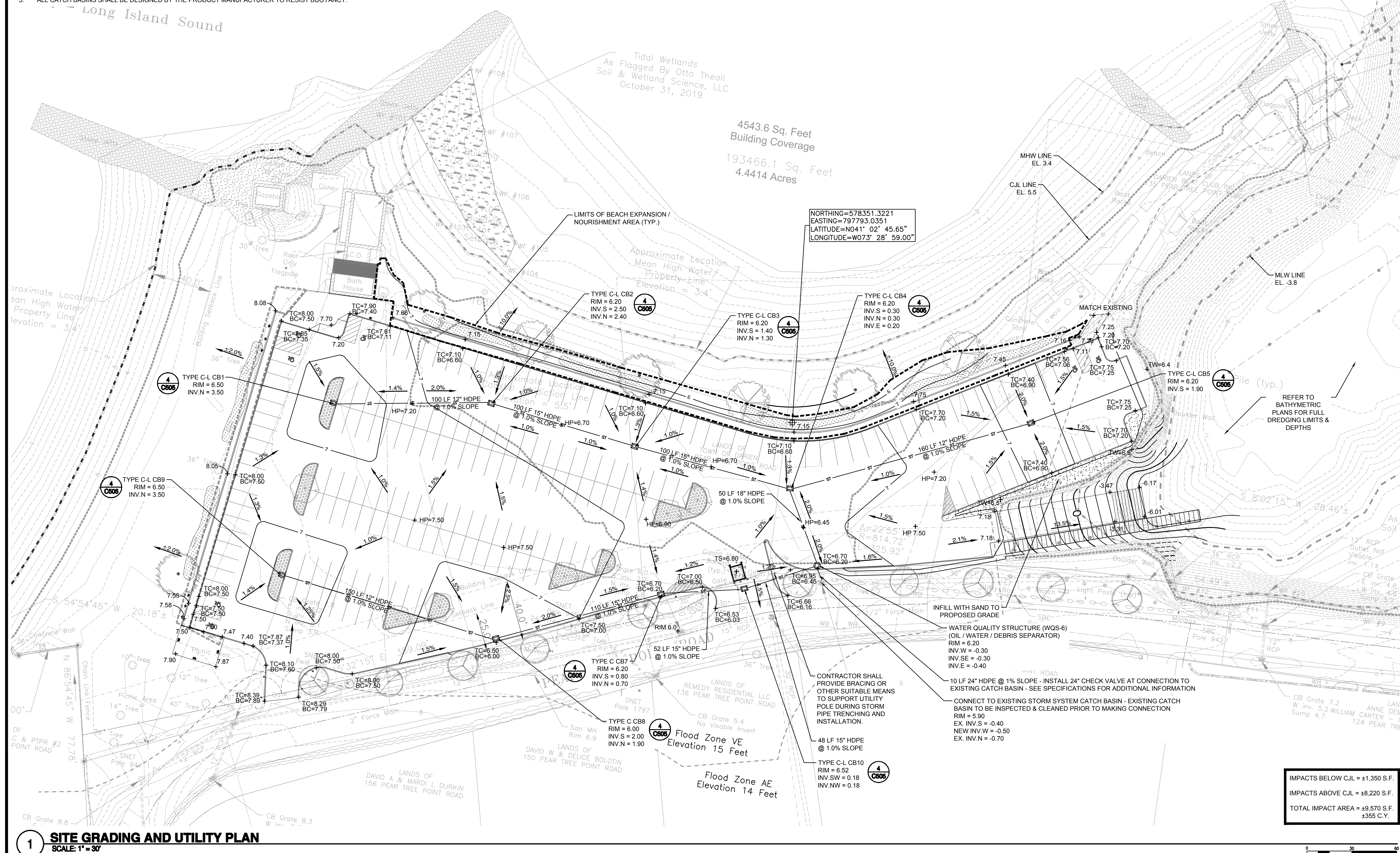
EXISTING CONDITIONS AND DEMOLITION PLAN

Sheet Number:

C101

Rev. 16 Date: 04/10/2019

1. ALL NEW CATCH BASINS TO HAVE 36" DEEP SUMP.
2. CONTRACTOR SHALL ABIDE BY ALL SPECIFICATIONS AS OUTLINED IN THE TECHNICAL SPECIFICATION MANUAL FOR THIS PROJECT REGARDING GRADING, DRAINAGE, BEACH SAND, UTILITY INSTALLATION, AND ASSOCIATED ACTIVITIES.
3. WATER QUALITY STRUCTURE (WQS-6) SHALL BE DESIGNED TO TREAT A WATER QUALITY FLOW OF 3.1 CFS AND BYPASS A DESIGN FLOW OF 13.2 CFS. THE STRUCTURE SHALL BE A MANUFACTURER AND MODEL FROM THE CTDOT LIST OF APPROVED HYDRODYNAMIC SEPARATORS. THE MANUFACTURER DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE REVIEWED BY THE DESIGN ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THE STRUCTURE SHALL BE DESIGNED TO RESIST BUOYANCY.
4. AT ALL PROPOSED CATCH BASINS, THE OUTLET PIPE SHALL BE FITTED WITH A DEBRIS (TRAP) HOOD. THE HOOD SHALL BE A "SNOUT" AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC., (800) 804-8008, OR APPROVED EQUAL.
5. ALL CATCH BASINS SHALL BE DESIGNED BY THE PRODUCT MANUFACTURER TO RESIST BUOYANCY.



Project:

**TOWN OF
DARIEN**

**COUNTY OF FAIRFIELD
STATE OF CONNECTICUT**

**PEAR TREE POINT PARK
IMPROVEMENTS**

CONTRACT

-

**COP LICENSE #
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[illegible]

Seal:

A circular professional engineer seal for the State of Connecticut. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the name "JOSEPH S. P..." is visible, along with a central emblem and the number "No. 24027". The seal is partially obscured by a large, stylized signature in black ink.

COA:

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CONSTRUCTION

Scale: AS NOTED

Date: JULY 3, 2025

Drawn By: ALP

Reviewed By: JWG

Approved By: JSP

W&S Project No - 2190362

Drawing Title:

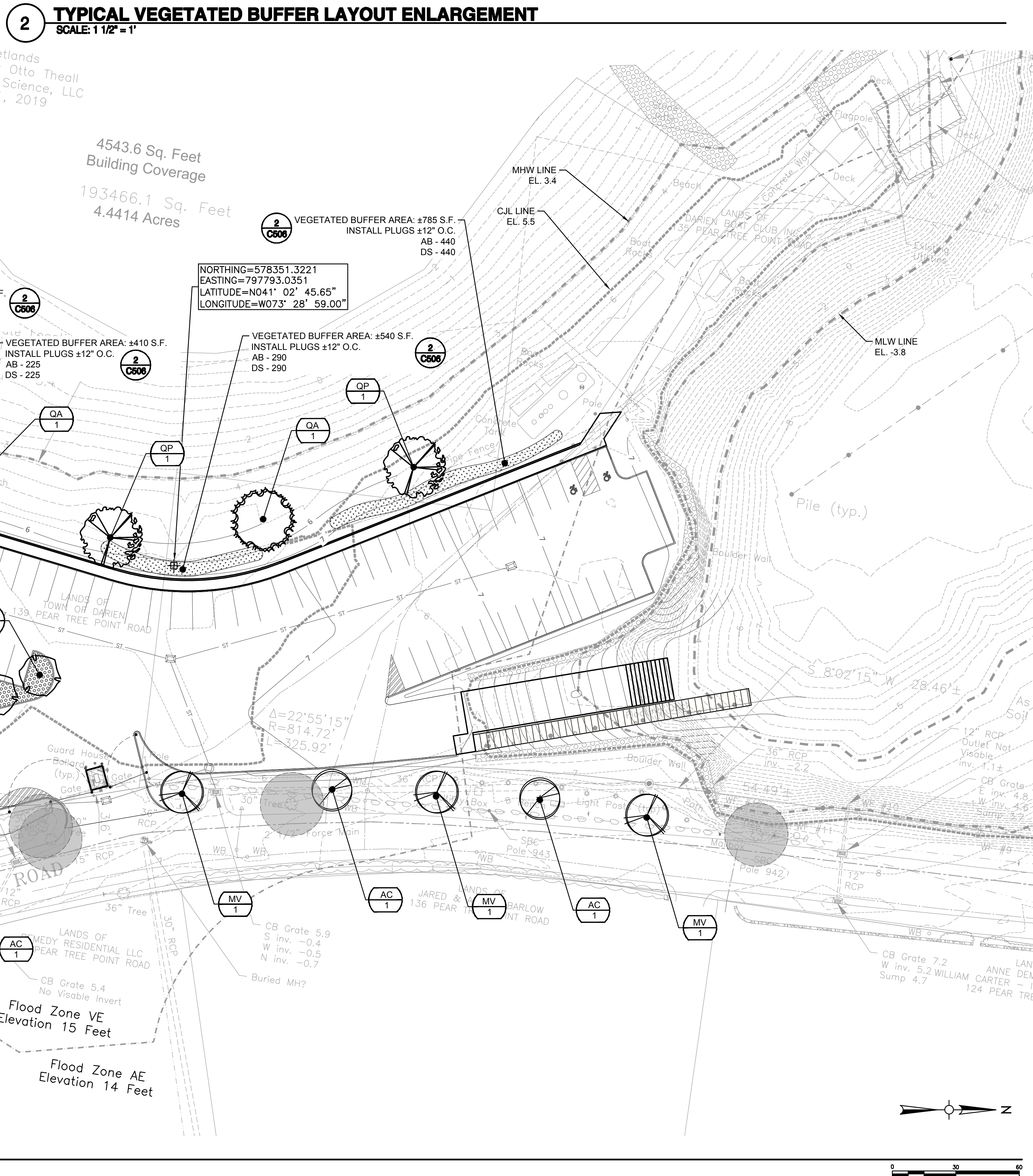
SITE GRADING AND UTILITY PLAN

Sheet Number:

C103

Rev: 16 Date: 04/10/2019

PLANTING SCHEDULE				
KEY	BOTANIC NAME	COMMON NAME	SIZE	REMARKS
TREES				
AC	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	8'-10' HT	MULTI-STEM, SALT TOLERANT
MA	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	8'-10' HT	UNIFORM BRANCHING, SALT TOLERANT
QA	OXYDENDRUM ARBOREUM	SOURWOOD	2.5" - 3.0" CAL.	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
QA	QUERCUS ALBA	WHITE OAK	3.0" - 3.5" CAL.	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
QP	QUERCUS PRINUS	CHESTNUT OAK	3.0" - 3.5" CAL.	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
PERENNIALS				
AB	AMMOPHILA BREVILIGULATA	AMERICAN BEACH GRASS	PLUG	12" O.C., NATIVE, SALT TOLERANT
DS	DISTICHLIS SPICATA	SPIKE GRASS	PLUG	12" O.C., NATIVE, SALT TOLERANT
WETLAND PLANTING				
DS	DISTICHLIS SPICATA	SPIKE GRASS	PLUG	18" O.C., NATIVE, SALT TOLERANT
SA	SPARTINA ALTERNIFLORA	SALT MARSH CORDGRASS	PLUG	18" O.C., NATIVE, SALT TOLERANT
SP	SPARTINA PATENS	SALT MEADOW CORDGRASS	PLUG	18" O.C., NATIVE, SALT TOLERANT



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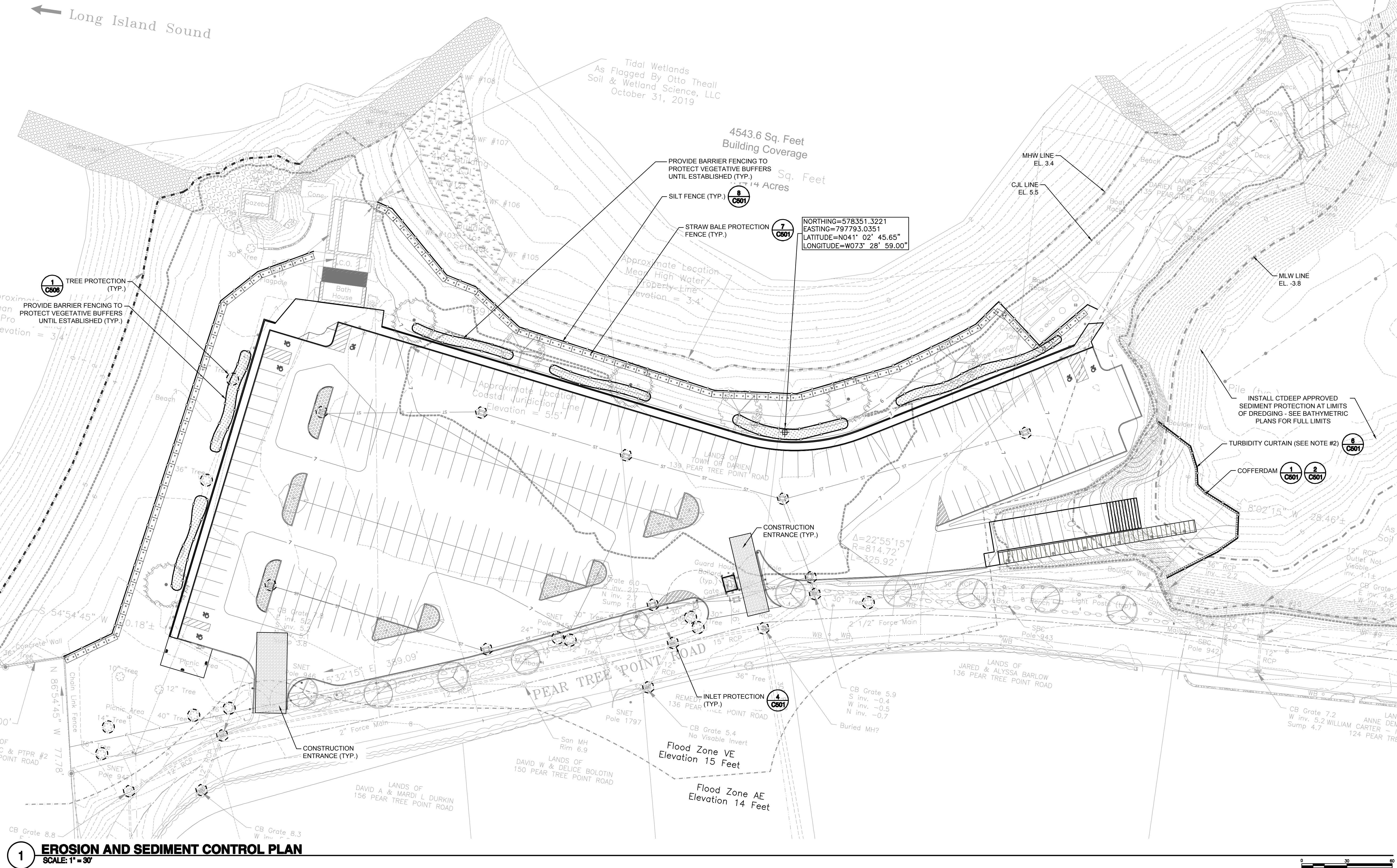
The seal is circular with a double-lined border. The outer ring contains the text 'STATE OF CONNECTICUT' at the top and 'LANDSCAPE ARCHITECT' at the bottom, separated by stars. Inside the ring is a shield with a ship. Below the shield is the text 'NO. 13208'. The seal is signed 'Daniel P. Biggs' in blue ink.

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CONSTRUCTION	
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Drawn By:	ALP
Reviewed By:	JWG
Approved By:	DPB
W&S Project No. : 2190362	
W&S File No.:	

Drawing Title: SITE PLANTING PLAN	Sheet Number: C104
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EROSION AND SEDIMENT CONTROL NOTES:

1. CONTRACTOR SHALL STORE AND PROTECT ALL MATERIALS AND EQUIPMENT WITHIN PROJECT LIMITS. NO STORING OR STAGING OF MATERIALS AND EQUIPMENT BEYOND PROJECT LIMITS SHALL BE PERMITTED WITHOUT AUTHORIZATION FROM OWNER'S REPRESENTATIVE OR PARKS & RECREATION DIRECTOR.
2. THE TURBIDITY CURTAIN SHALL BE TYPE IV (HEAVYWEIGHT) AS REQUIRED BY THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL (CHAPTER 5).



Project:

TOWN OF DARIEN

COUNTY OF FAIRFIELD

STATE OF CONNECTICUT

PEAR TREE POINT PARK IMPROVEMENTS

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No.	Date	Description

Revisions:

No.	Date	Description

Seal:

STATE OF CONNECTICUT
DANIEL P. BIGGS
NO. 13298
LANDSCAPE ARCHITECT

COA:

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Date: JULY 3, 2025

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Reviewed By: JWG

Approved By: DPB

W&S Project No.: 2190362

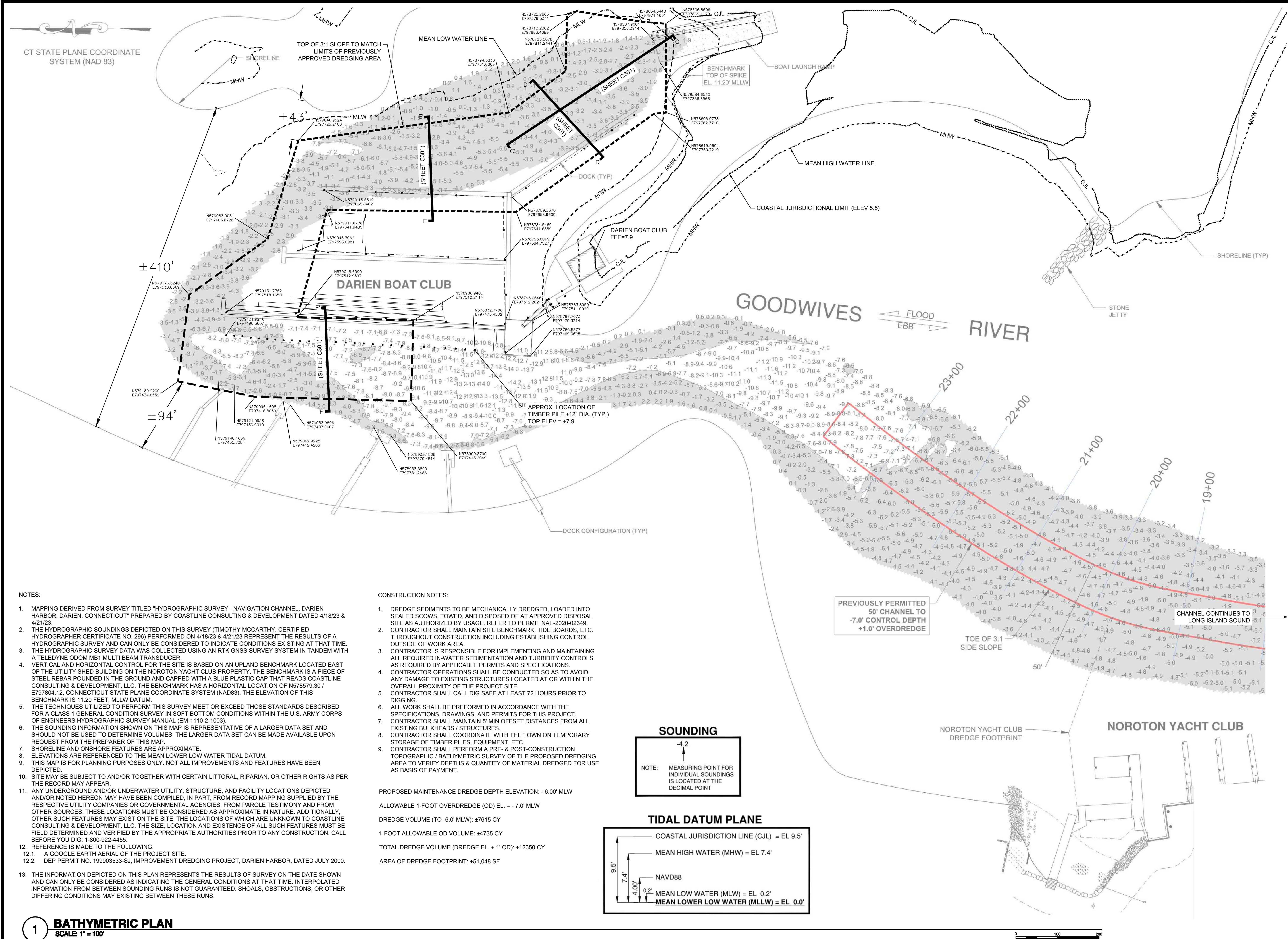
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Drawing Title:

EROSION AND SEDIMENT CONTROL PLAN

Sheet Number:

C105

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CONSTRUCTION

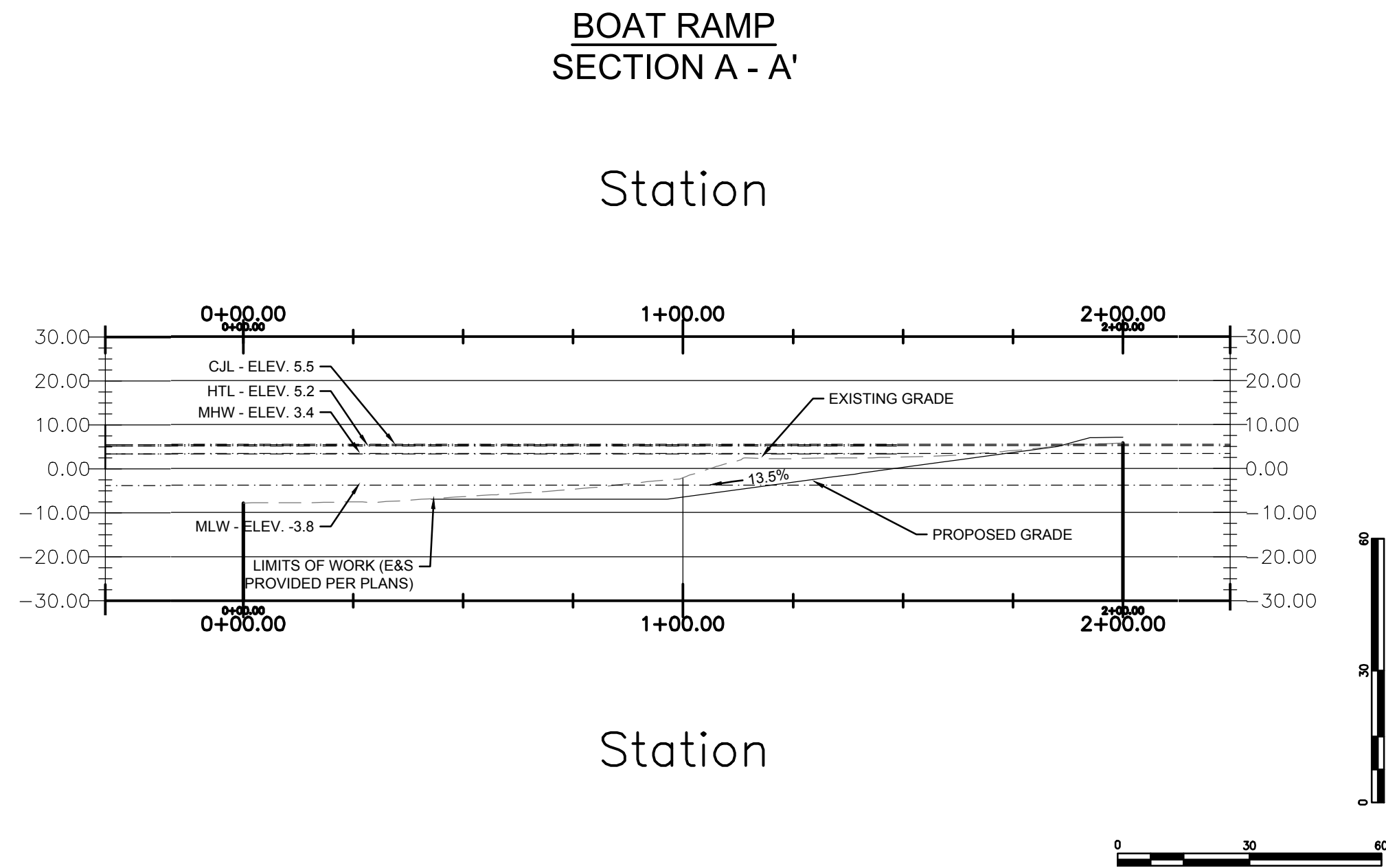
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Date:	JULY 3, 2025
Drawn By:	ALP
Reviewed By:	JWG
Approved By:	JSP

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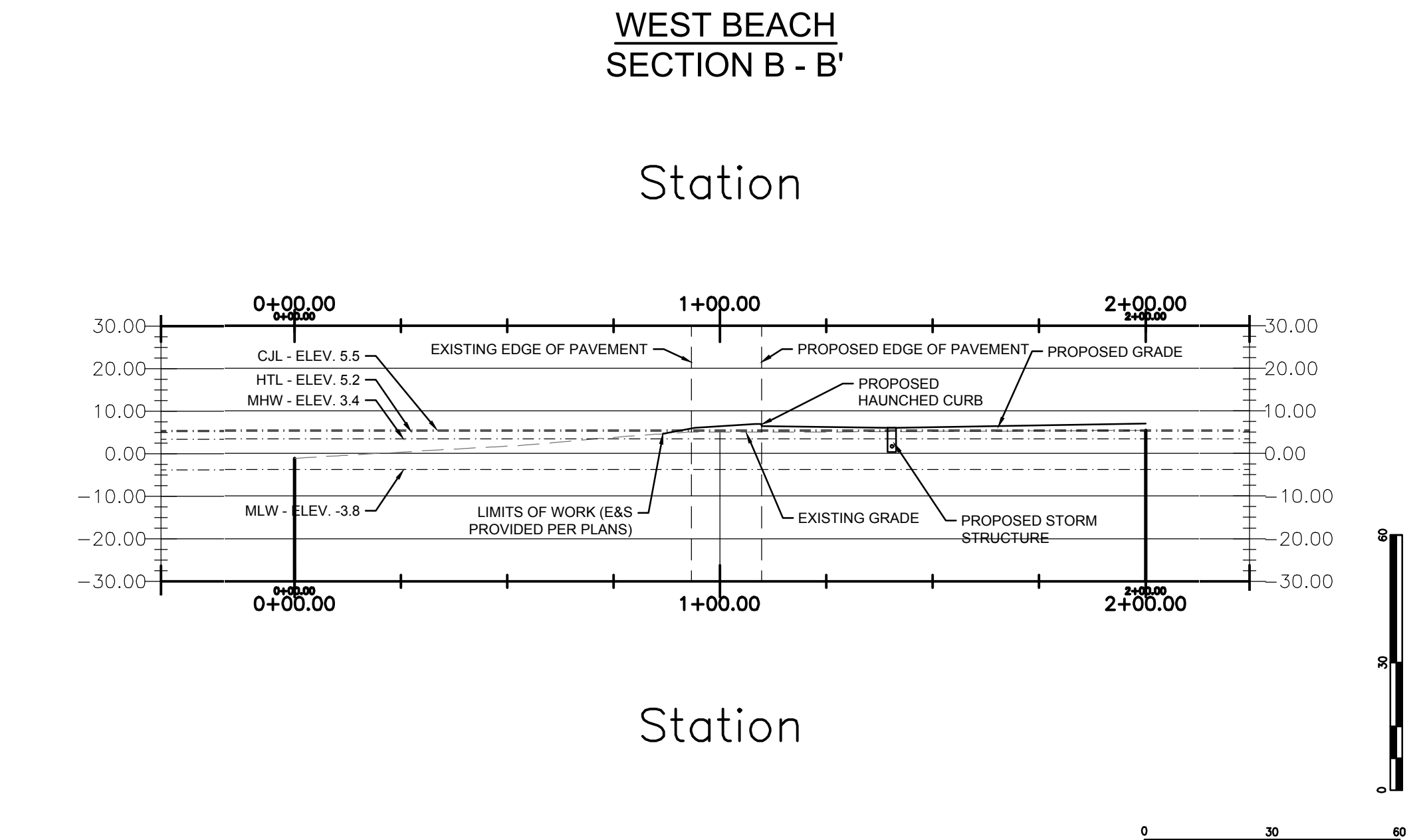
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DREDGING PLAN

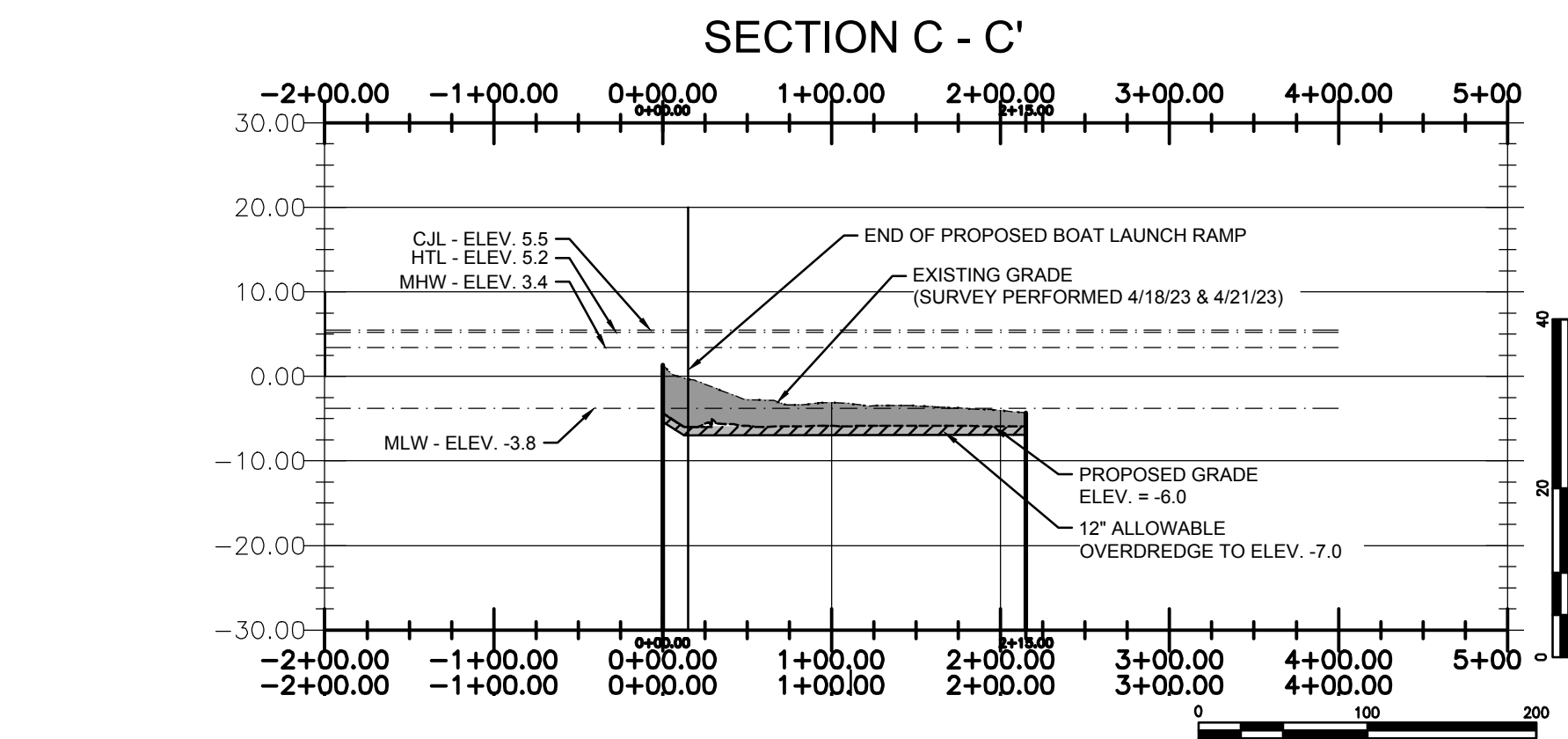
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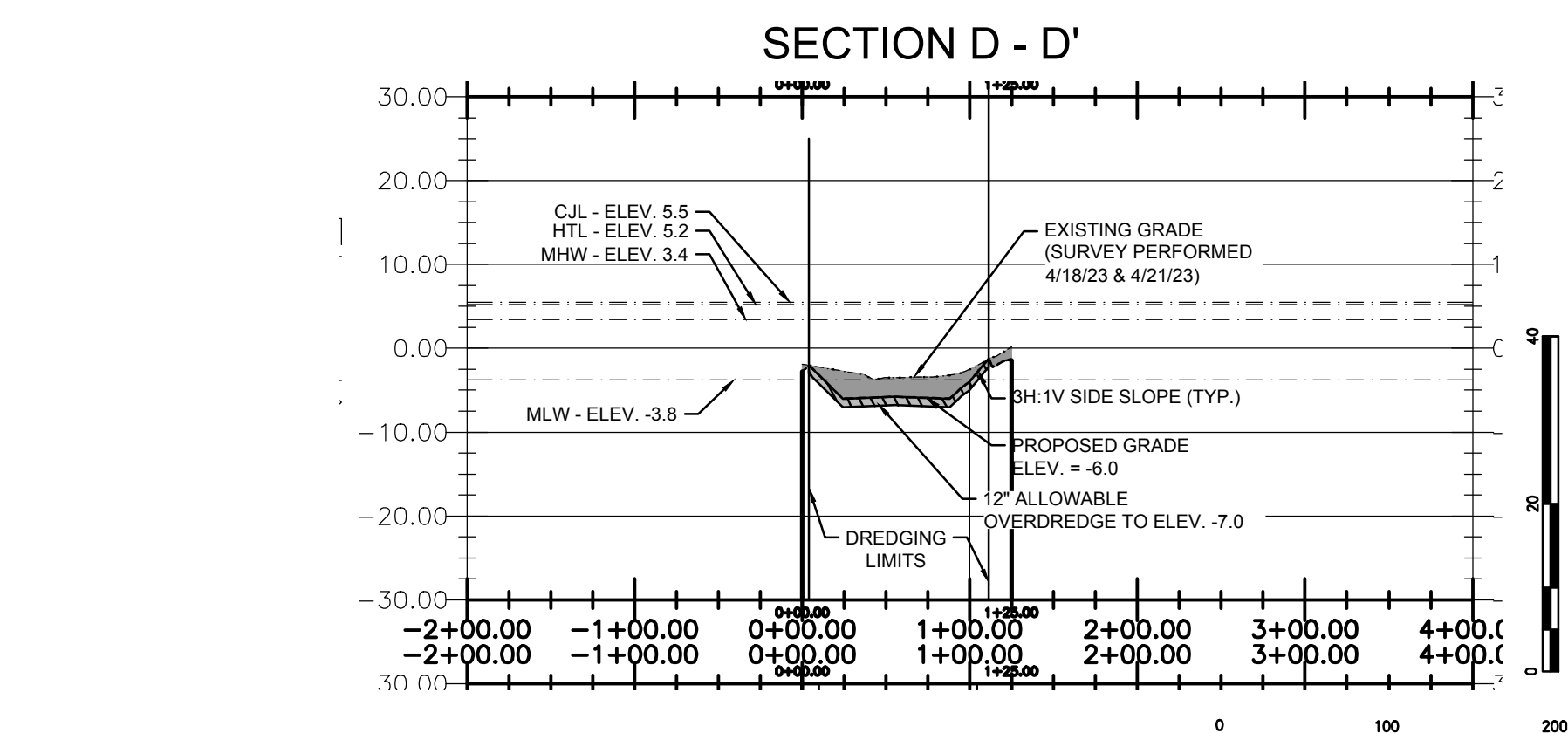
1 BOAT RAMP SECTION A - A'
SCALE: 1"=30' H | 1"=30' V



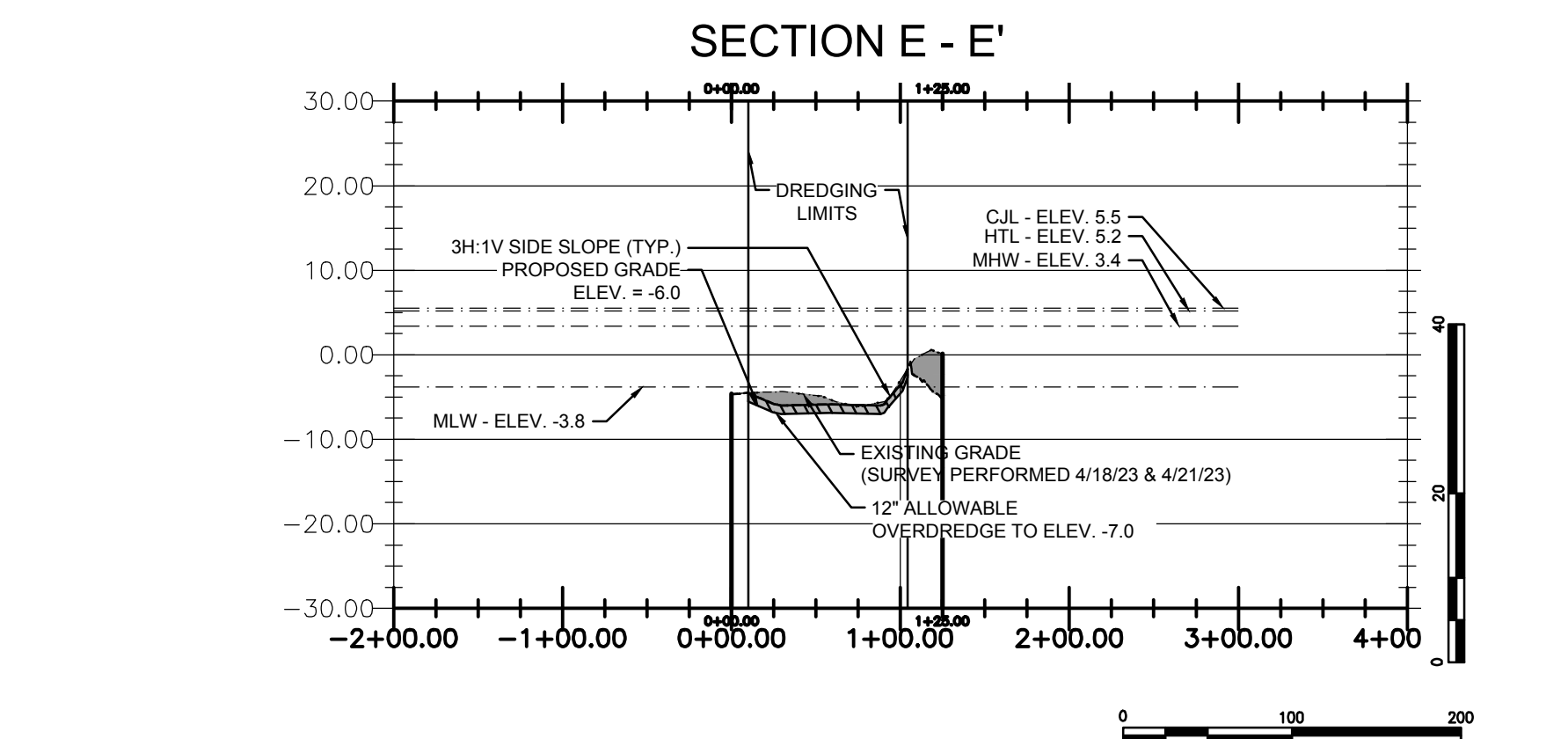
2 WEST BEACH SECTION B - B'
SCALE: 1"=30' H | 1"=30' V



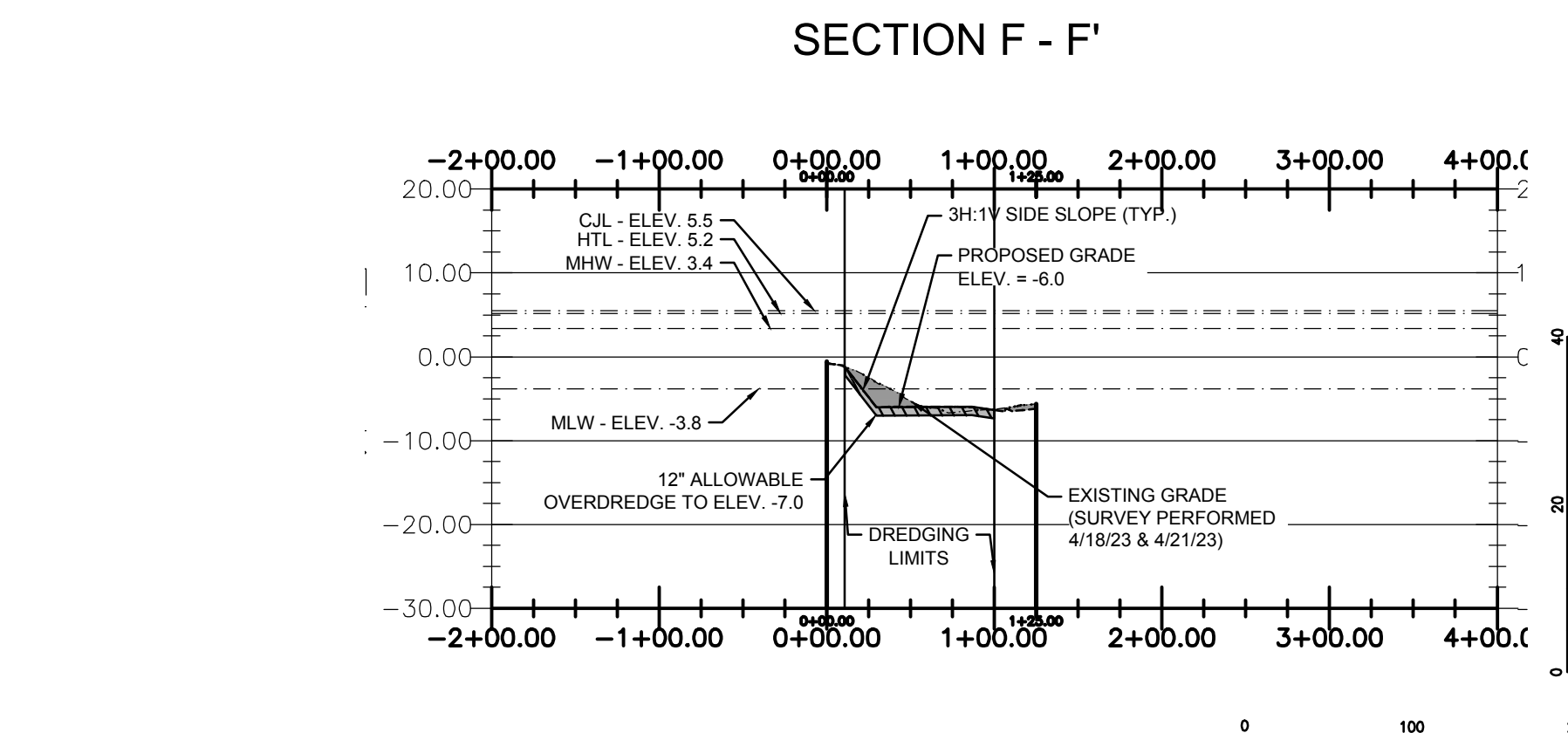
3 DREDGING SECTION C - C'
SCALE: 1"=100' H | 1"=20' V



4 DREDGING SECTION D - D'
SCALE: 1"=100' H | 1"=20' V

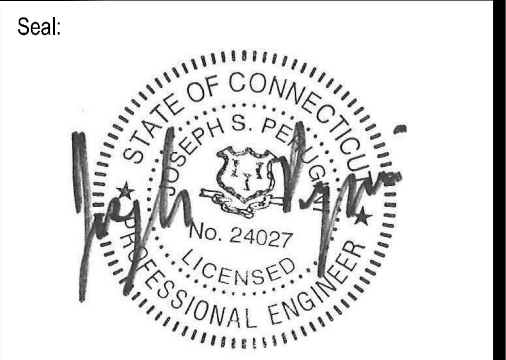


5 DREDGING SECTION E - E'
SCALE: 1"=100' H | 1"=20' V



6 DREDGING SECTION F - F'
SCALE: 1"=100' H | 1"=20' V

Revisions:		
No.	Date	Description



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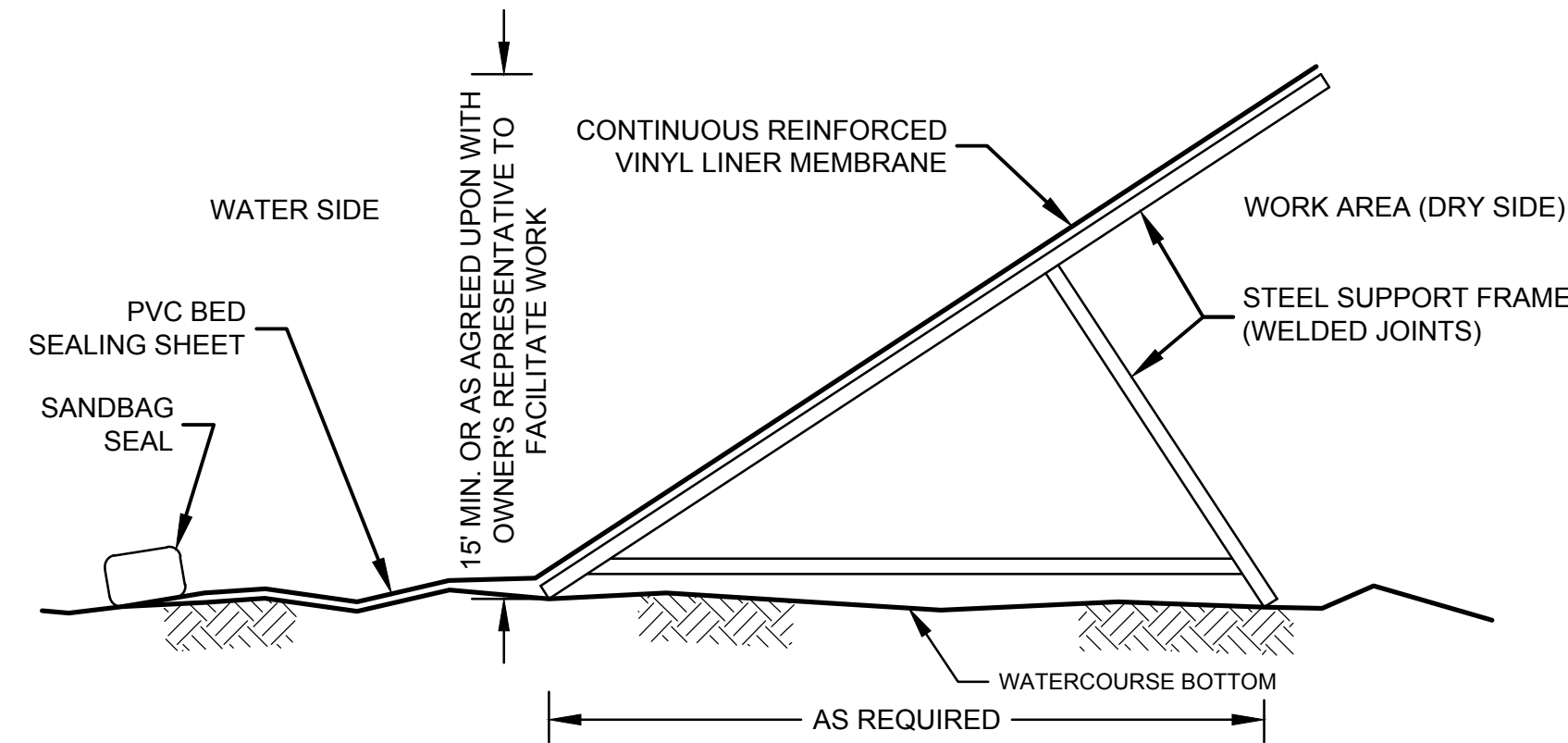
TYPICAL SECTIONS

Sheet Number:

C301

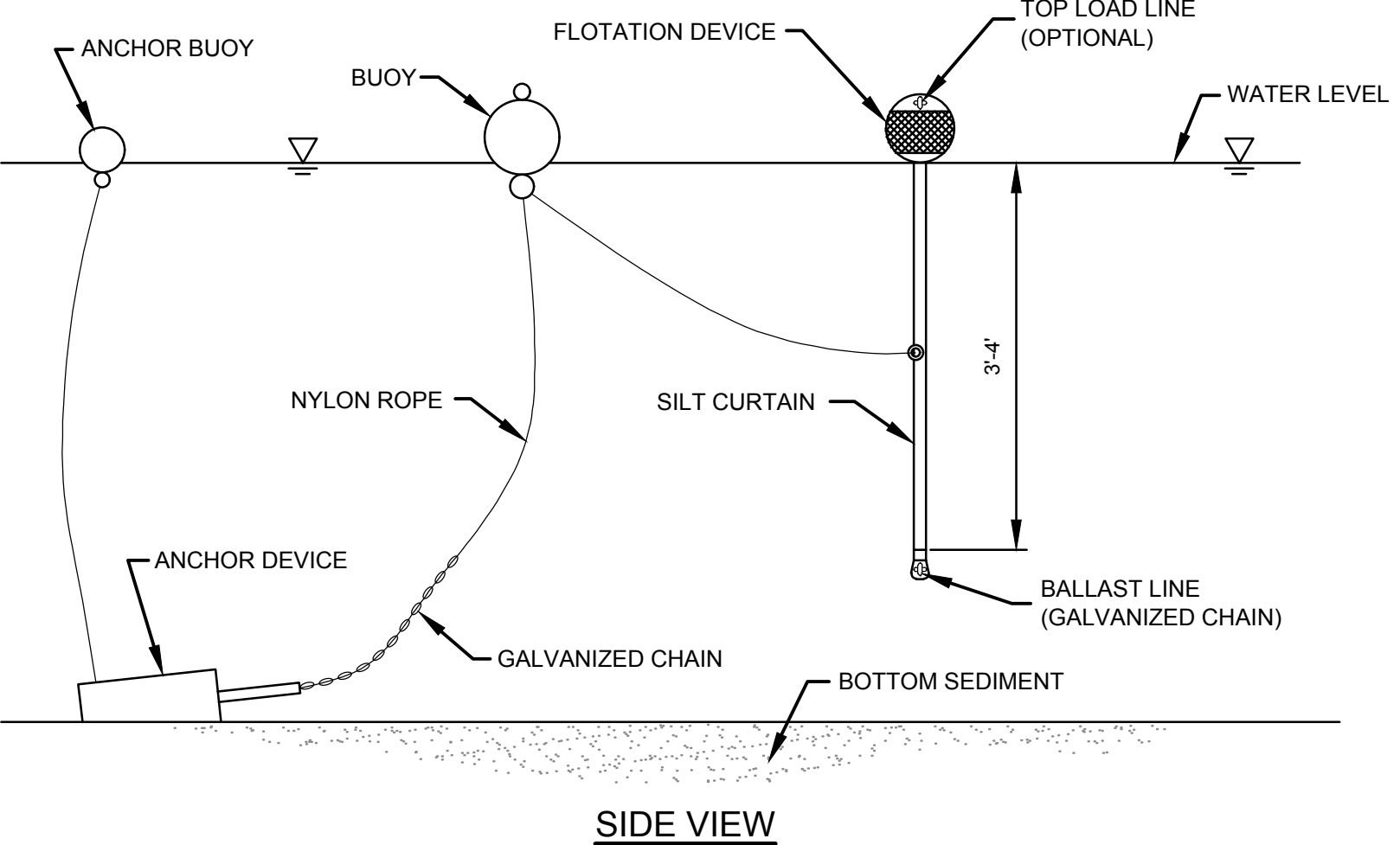
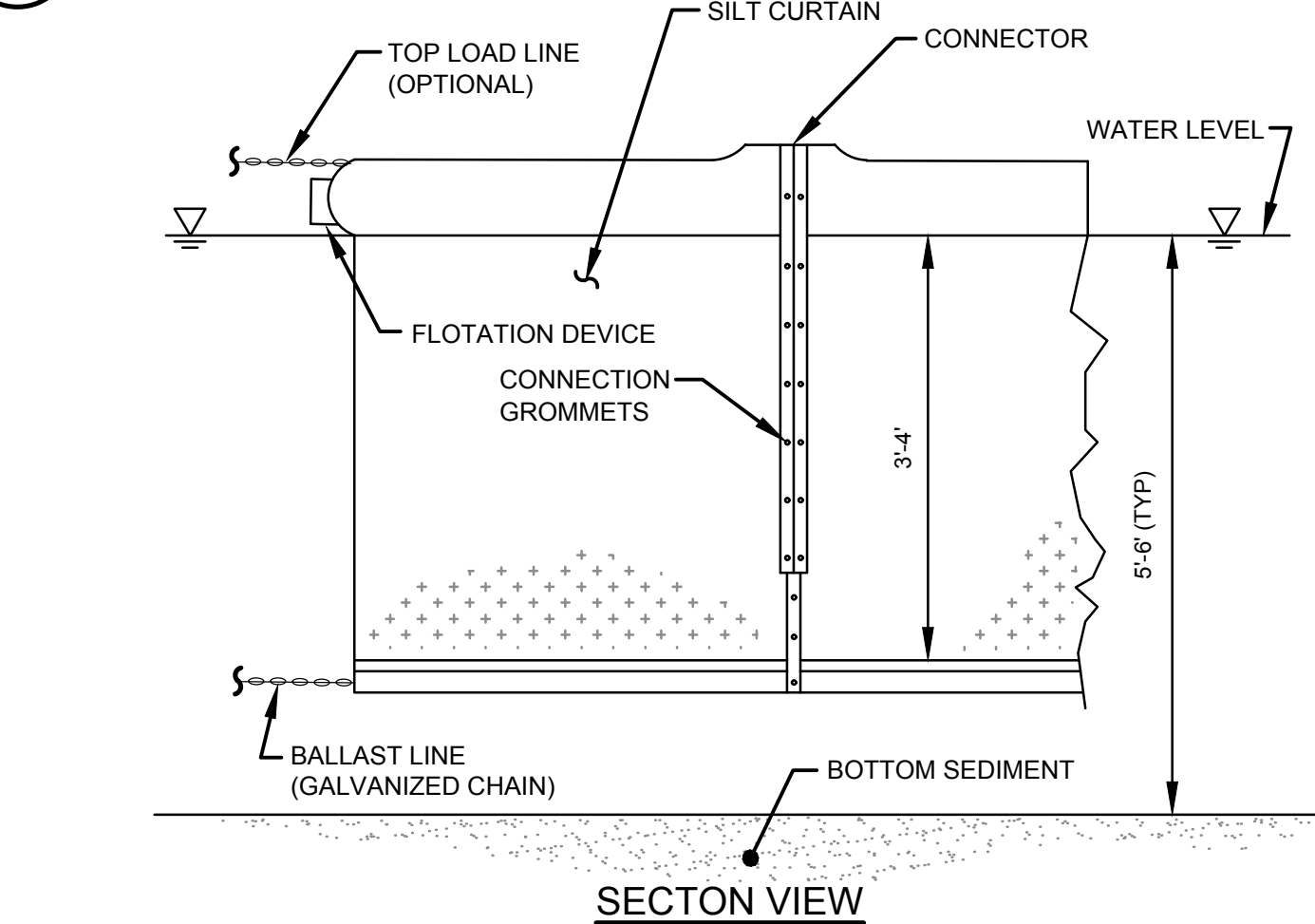
TYPICAL CONSTRUCTION SEQUENCE

- OBTAIN APPROPRIATE PERMITS, NOTIFY TOWN OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
- ON-SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. NO WORK SHALL TAKE PLACE UNTIL THE ENGINEER AND TOWN REPRESENTATIVE HAVE INSPECTED AND APPROVED INSTALLED MEASURES. AFTER EROSION CONTROL MEASURES ARE INSTALLED THE TYPICAL CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
 - CONSTRUCT WATER DIVERSION STRUCTURES (i.e. COFFERDAM, SAND BAG BERM...)
 - COFFERDAM TO BE INSTALLED IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SEDIMENT AND EROSION CONTROL.
 - DEWATER AREA TO PROVIDE DRY CONSTRUCTION AREA.
 - INSTALL IMPROVEMENTS AND RESTORE WATERCOURSE BOTTOM WITH NATIVE MATERIAL, REPLACE RIP RAP AND INSTALL EROSION CONTROL FABRIC AT DISTURBED AREAS.
 - RECONFIGURE WATER DIVERSION STRUCTURES AS REQUIRED TO COMMENCE WORK ON OPPOSITE SIDE OF WATERCOURSE.
 - DEWATER AREA TO PROVIDE DRY CONSTRUCTION AREA.
 - INSTALL IMPROVEMENTS AND RESTORE WATERCOURSE BOTTOM WITH NATIVE MATERIAL, REPLACE RIP RAP AND INSTALL EROSION CONTROL FABRIC AT DISTURBED AREAS.
 - COMPLETE SLOPE STABILIZATION AND ALL OTHER ASSOCIATED WORK.
 - INSTALL EROSION CONTROL FABRIC AND LOAM AND SEED ALL DISTURBED AREAS.



- NOTES:
- COFFERDAM TO BE MANUFACTURED BY PORTADAM OR APPROVED EQUAL. THE CONTRACTOR MAY SUBMIT ALTERNATE MEANS AND METHODS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - COFFERDAM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
 - PROVIDE BACK BRACE POLES, ADDITIONAL BRACING AND ATTACHMENTS AS REQUIRED.

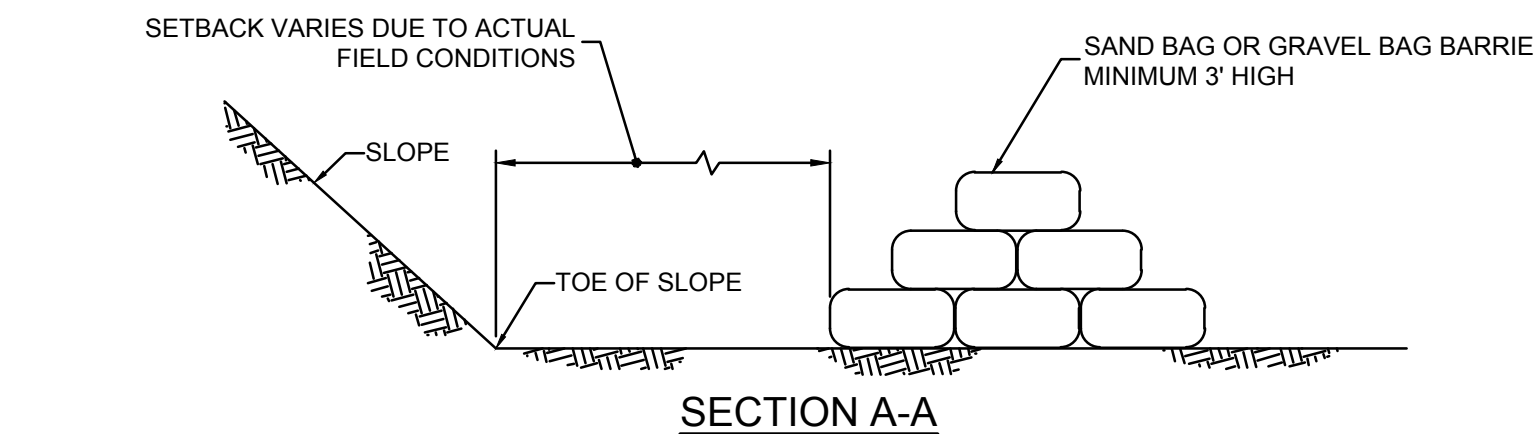
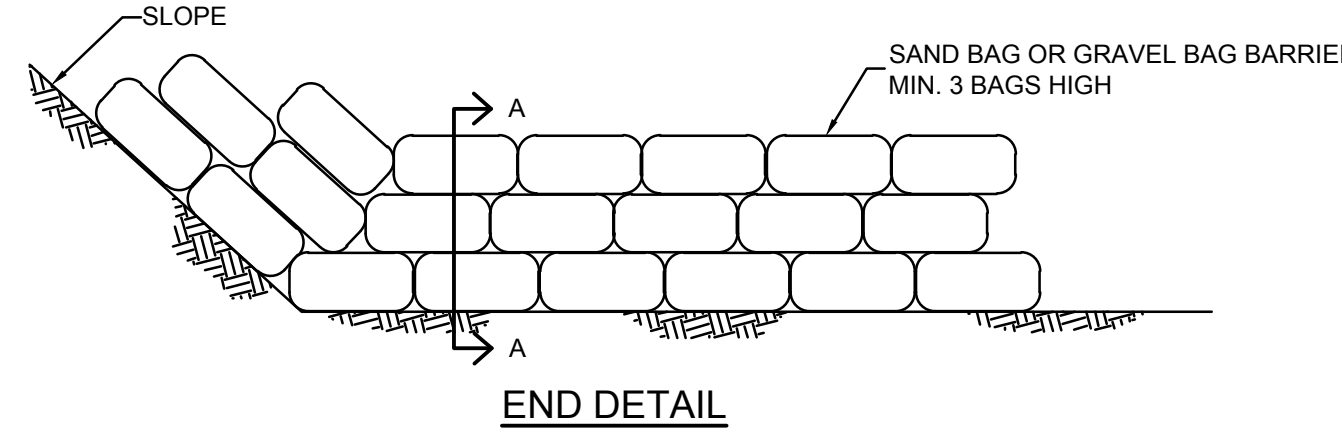
1 COFFERDAM
SCALE: N.T.S.



6 TURBIDITY CURTAIN
SCALE: N.T.S.

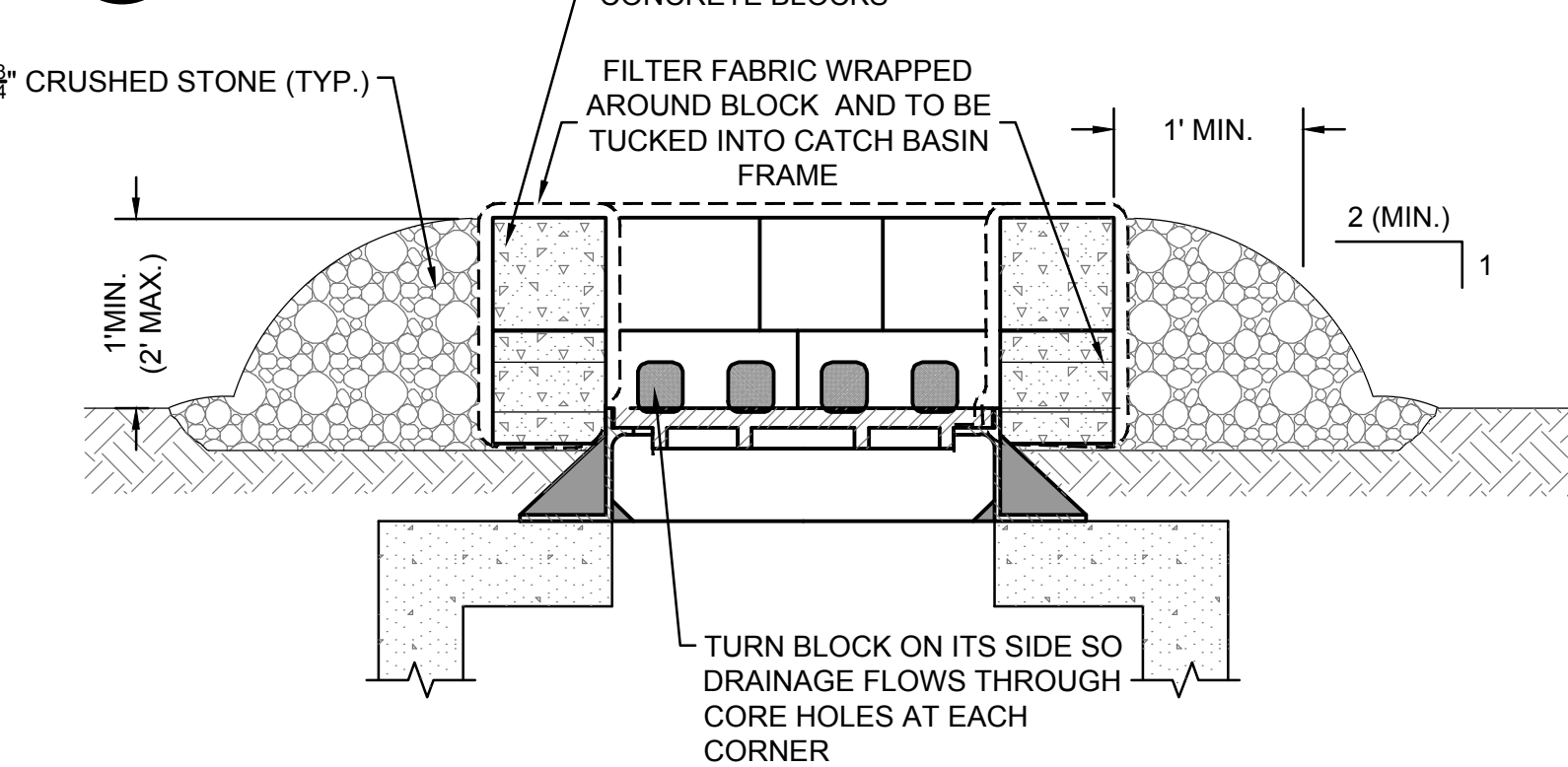
CONSTRUCTION NOTES

- THE CONTRACTOR SHALL CHECK THE WEATHER FORECAST PRIOR TO EACH DAY'S CONSTRUCTION AND SHALL BE RESPONSIBLE FOR SAFE HANDLING OF ANY EXISTING OR FORECAST FLOWS.
- MEETINGS SHALL BE HELD TO DISCUSS WEATHER FORECASTS AND THEIR IMPACT ON SCHEDULED WORK.
- WORK SHALL BE SCHEDULED SUCH WORK IS PERFORMED DURING DRY WEATHER.
- LARGE STORMS ARE EXPECTED TO OVERTOP THE WATER CONTROL STRUCTURES AND SHALL REQUIRE ADDITIONAL MEASURES TO PROTECT THE WORK AREA AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO HANDLE FORECAST FLOWS AND STABILIZE THE CONSTRUCTION AREA TO PREVENT THE LOSS OF MATERIAL AND EROSION FROM THE SITE AND TO REPAIR SEDIMENTATION AND EROSION CONTROL MEASURES AS NECESSARY.
- ALL WORK MUST BE CONDUCTED IN THE DRY, NO WORK WILL BE ALLOWED IN FLOWING WATER.



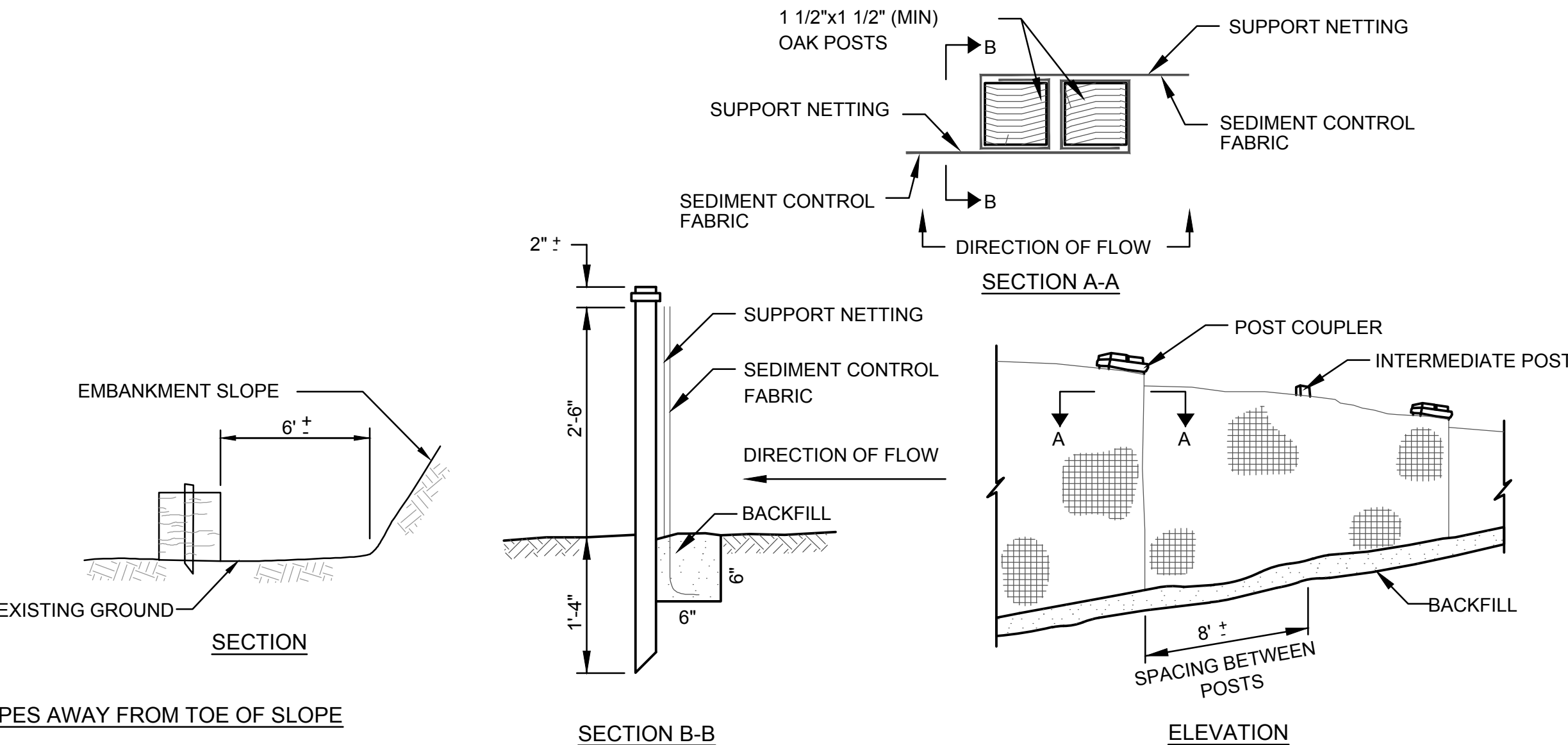
- NOTES:
- SAND BAG BARRIERS ARE INTENDED TO BLOCK AND DIVERT FLOW. THEY ARE NOT INTENDED TO BE USED AS FILTRATION DEVICES.
 - SAND BAG MATERIAL: SAND BAG SHALL BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT FOUR OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355. USE OF BURLAP IS NOT ACCEPTABLE SINCE IT ROTS AND DETERIORATES EASILY.
 - SAND BAG SIZE: EACH SAND-FILLED BAG SHALL HAVE A LENGTH, WIDTH, THICKNESS AND MASS SUITABLE TO COMPLETE THE WORK, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS. SAND BAG DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - FILL MATERIAL: ALL SAND BAG FILL MATERIAL SHALL BE NON-COHESIVE, CLASS 1 OR CLASS 2 PERMEABLE MATERIAL FREE FROM CLAY AND DELETERIOUS MATERIAL, CONFORMING TO THE PROVISIONS IN CALTRANS STANDARD SPECIFICATIONS SECTION 68-1.025 "PERMEABLE MATERIAL". THE REQUIREMENTS FOR THE DURABILITY INDEX AND SAND EQUIVALENT DO NOT APPLY. FILL MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER.
 - INSTALL ALONG A LEVEL CONTOUR.
 - TURN ENDS OF SAND BAG ROW UP SLOPE TO PREVENT FLOW AROUND THE ENDS.
 - INSPECT SAND BAG BARRIERS BEFORE, DURING, AND AFTER EACH RAINFALL EVENT, AND WEEKLY THROUGHOUT THE RAINY SEASON.
 - RESHAPE OR REPLACE SAND BAGS AS NEEDED.
 - REPAIR WASHOUTS OR OTHER DAMAGES AS NEEDED.
 - INSPECT SAND BAG BARRIERS FOR SEDIMENT ACCUMULATIONS AND REMOVE SEDIMENT WHEN ACCUMULATION REACHES ONE-THIRD THE BARRIER HEIGHT. REMOVED SEDIMENT SHALL BE DISPOSED OF PROPERLY.
 - REMOVE SAND BAGS WHEN NO LONGER NEEDED. REMOVE SEDIMENT ACCUMULATION, AND CLEAN, RE-GRADE, AND STABILIZE THE AREA.

2 TEMPORARY SAND BAG BARRIER
SCALE: N.T.S.

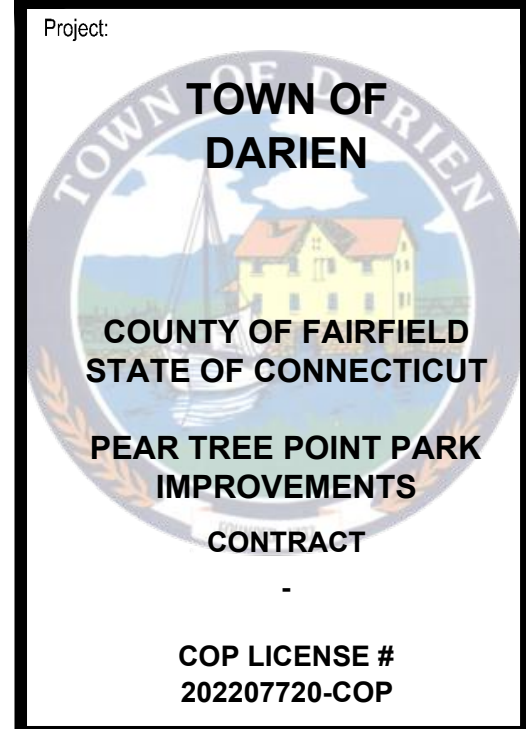


- NOTES:
- STABILIZATION GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
 - ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
 - WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
 - KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
 - REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

5 STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.



8 SILT FENCE
SCALE: N.T.S.



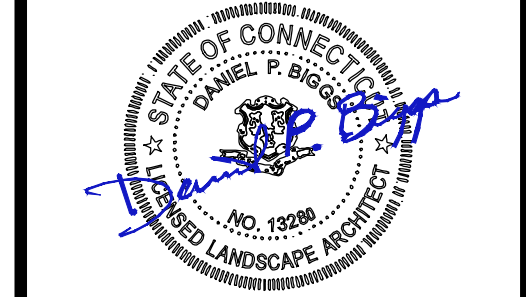
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712 Brook Street Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
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CONTROL
DETAILS

Sheet Number:

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8 PAVING SCHEDULE



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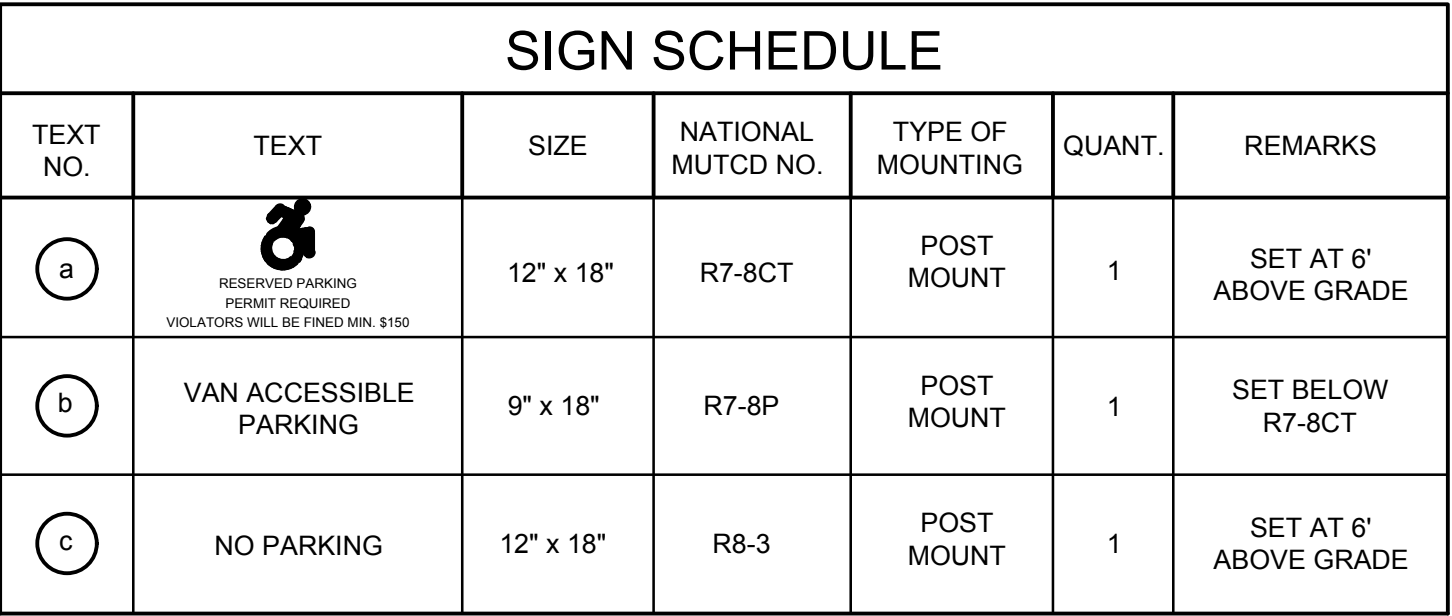
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Drawing Title:

PAVING & CURBING DETAILS

Sheet Number:

C502

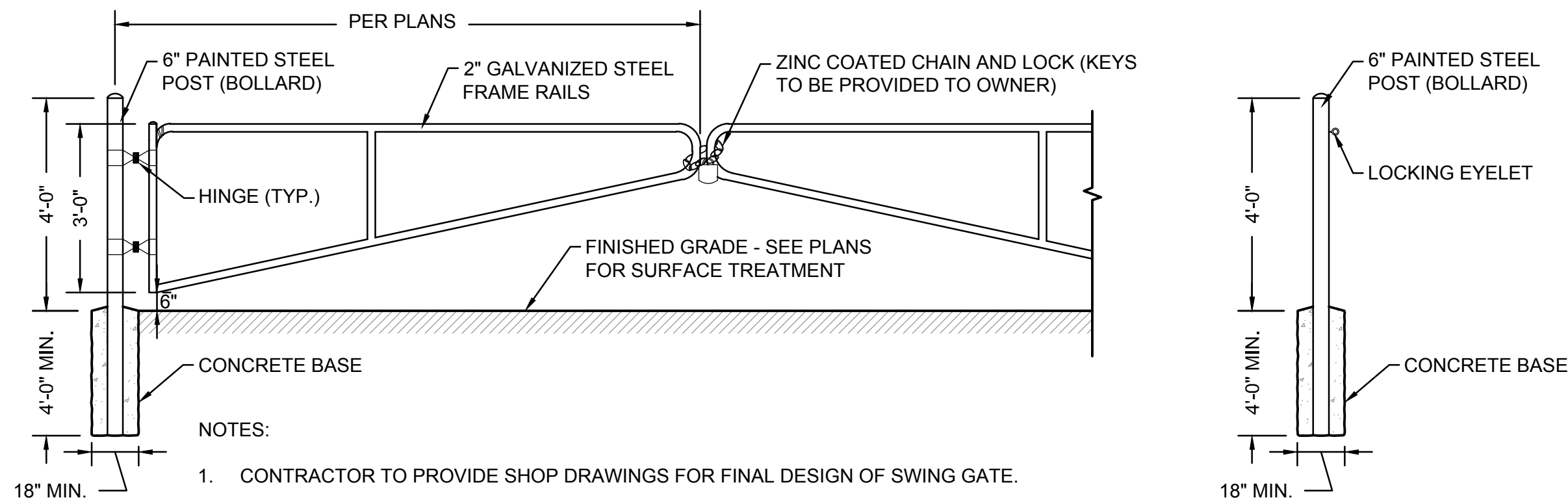


1 STANDARD SIGN POST
SCALE: N.T.S.

2 BOLLARD SIGN POST
SCALE: N.T.S.

3 ACCESSIBLE PARKING SIGN
SCALE: N.T.S.

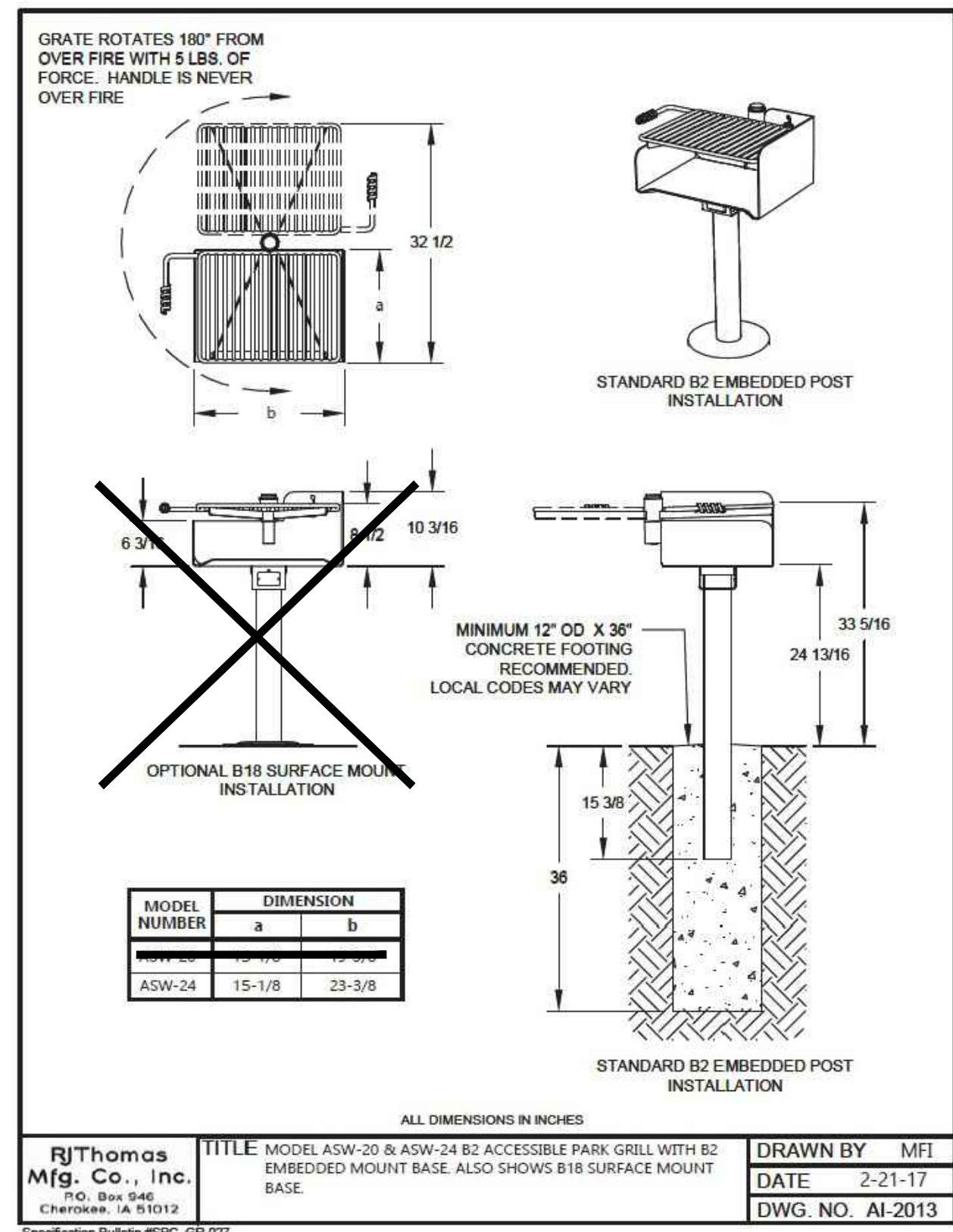
4 SIGN SCHEDULE
SCALE: N.T.S.



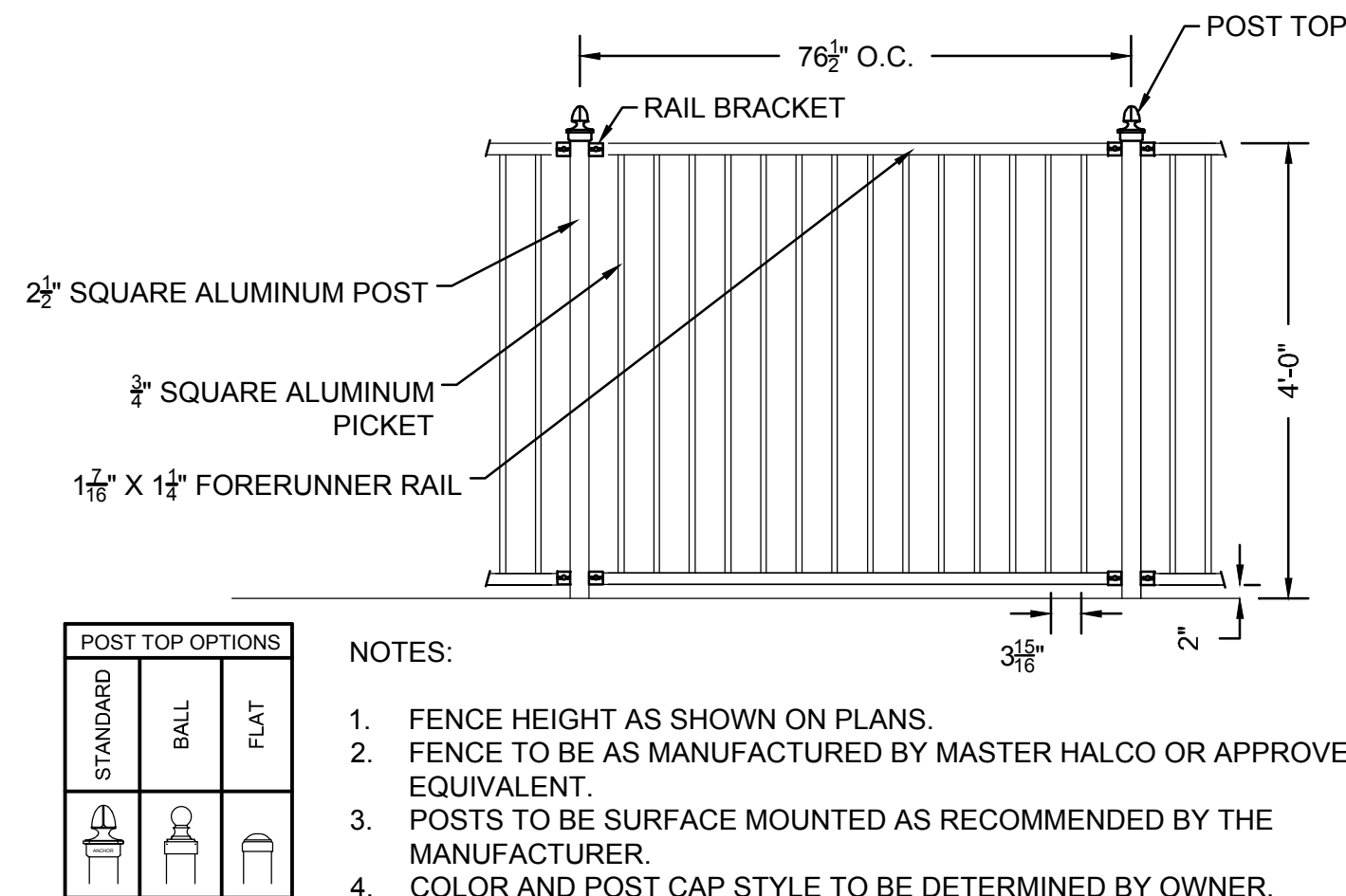
5 ACCESSIBLE PARKING LAYOUT

SCALE: N.T.S.

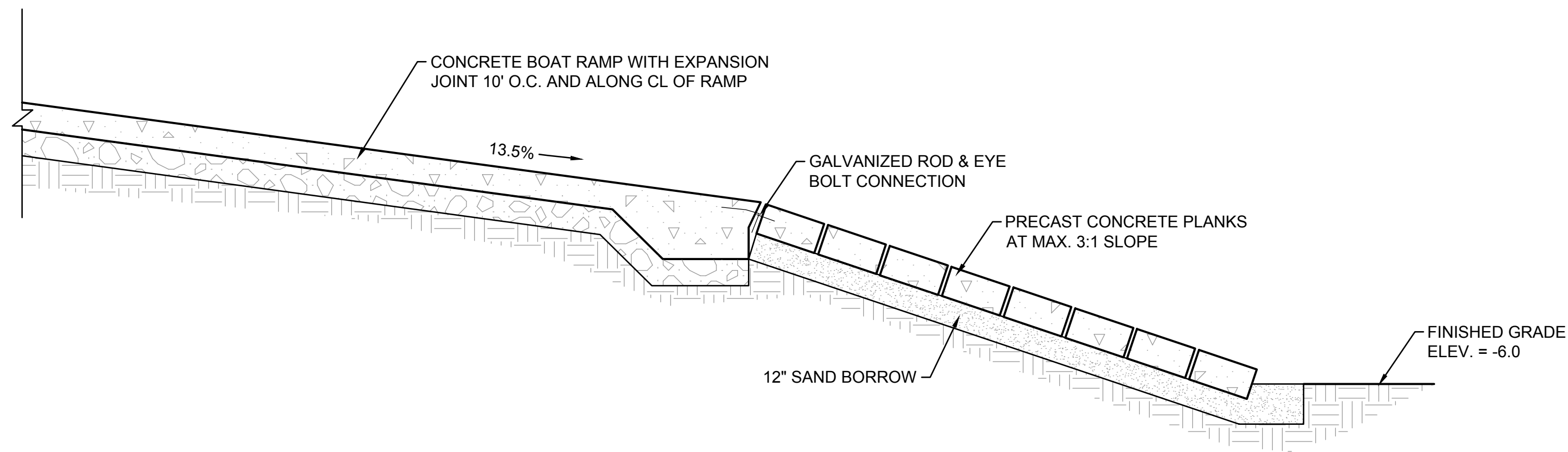
6 SWING GATE AND BOLLARD
SCALE: N.T.S.



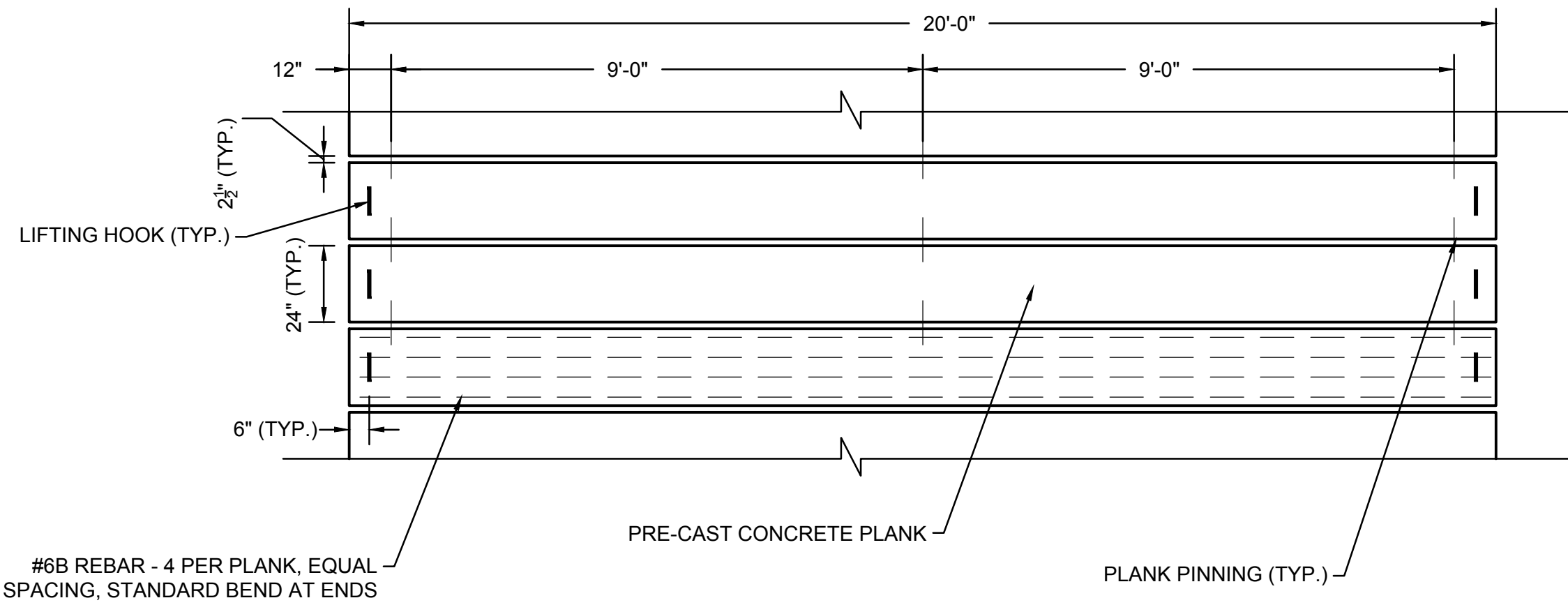
7 CHARCOAL GRILL
SCALE: N.T.S.



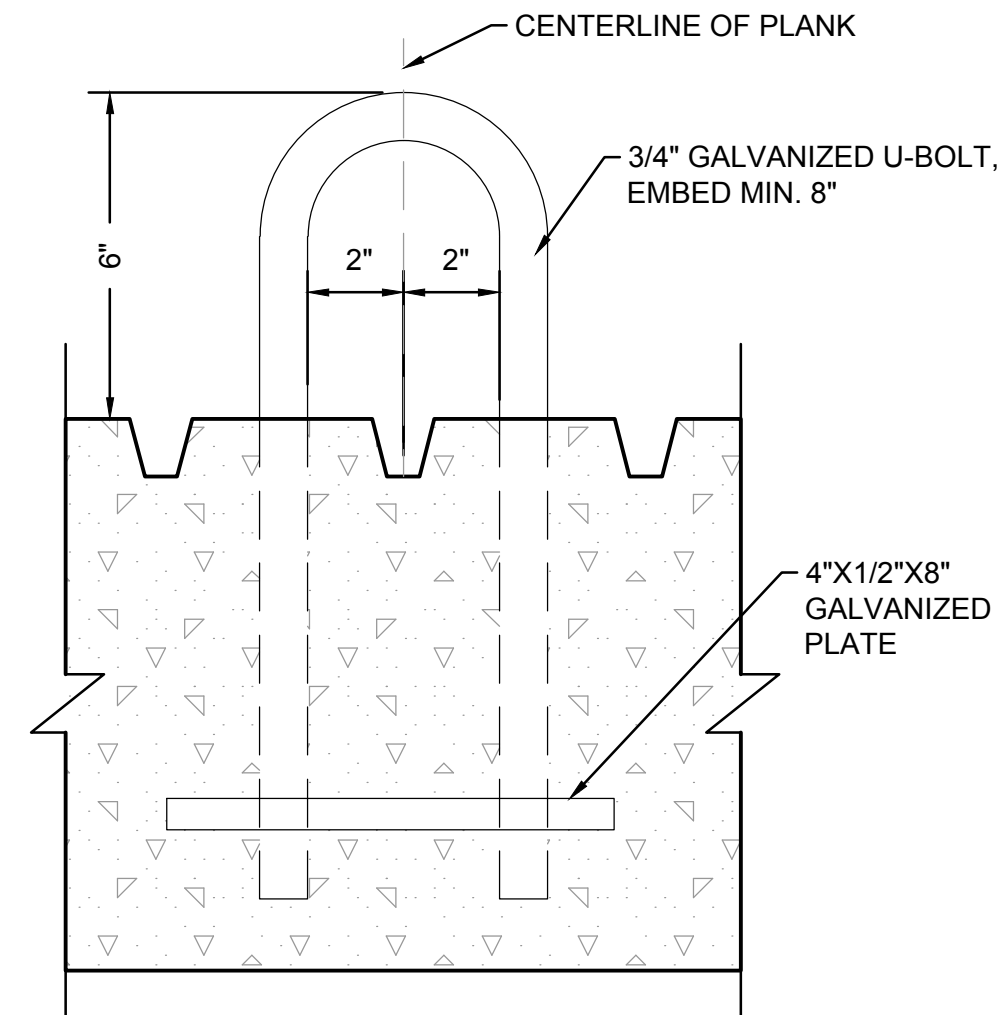
8 ORNAMENTAL FENCE
SCALE: N.T.S.



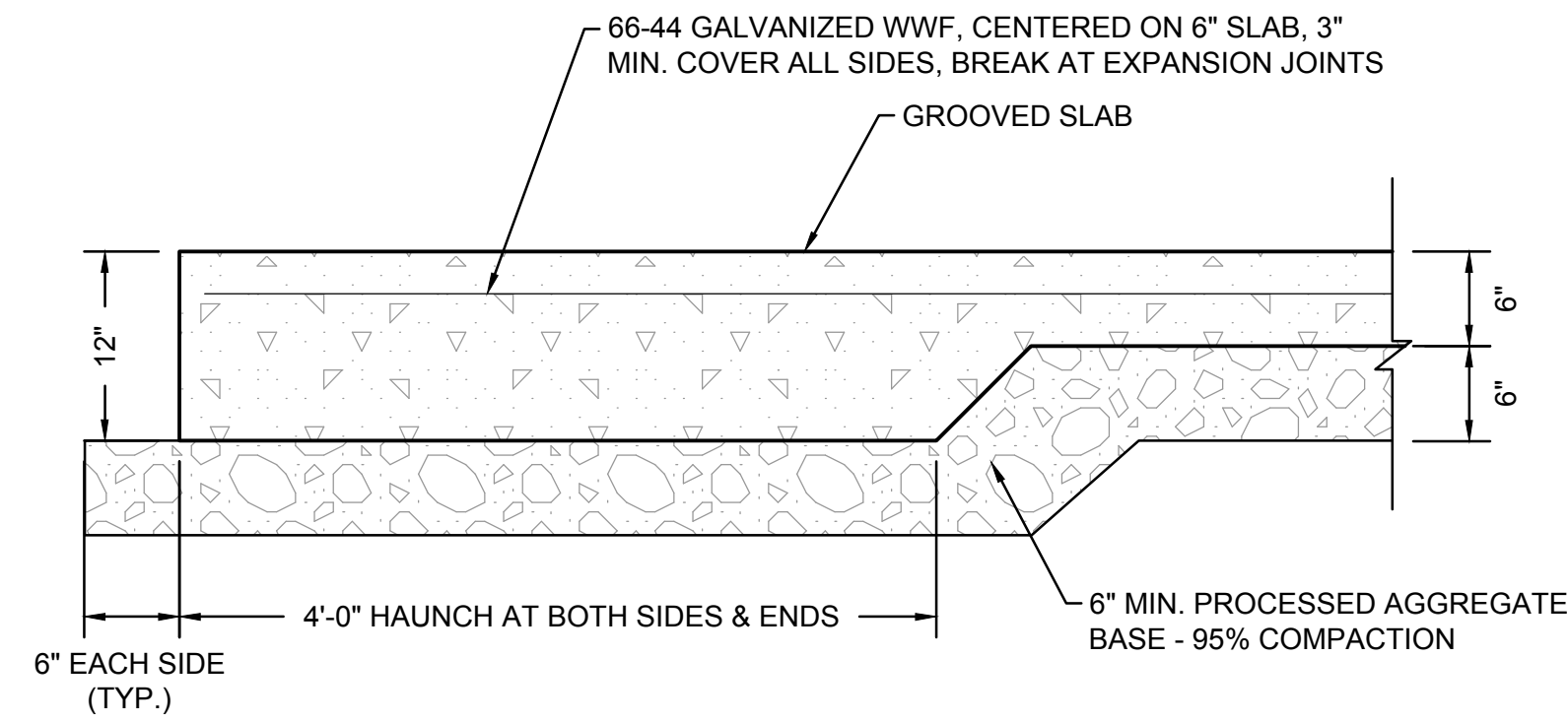
1 **BOAT LAUNCH RAMP & PLANK CONNECTION**
SCALE: N.T.S.



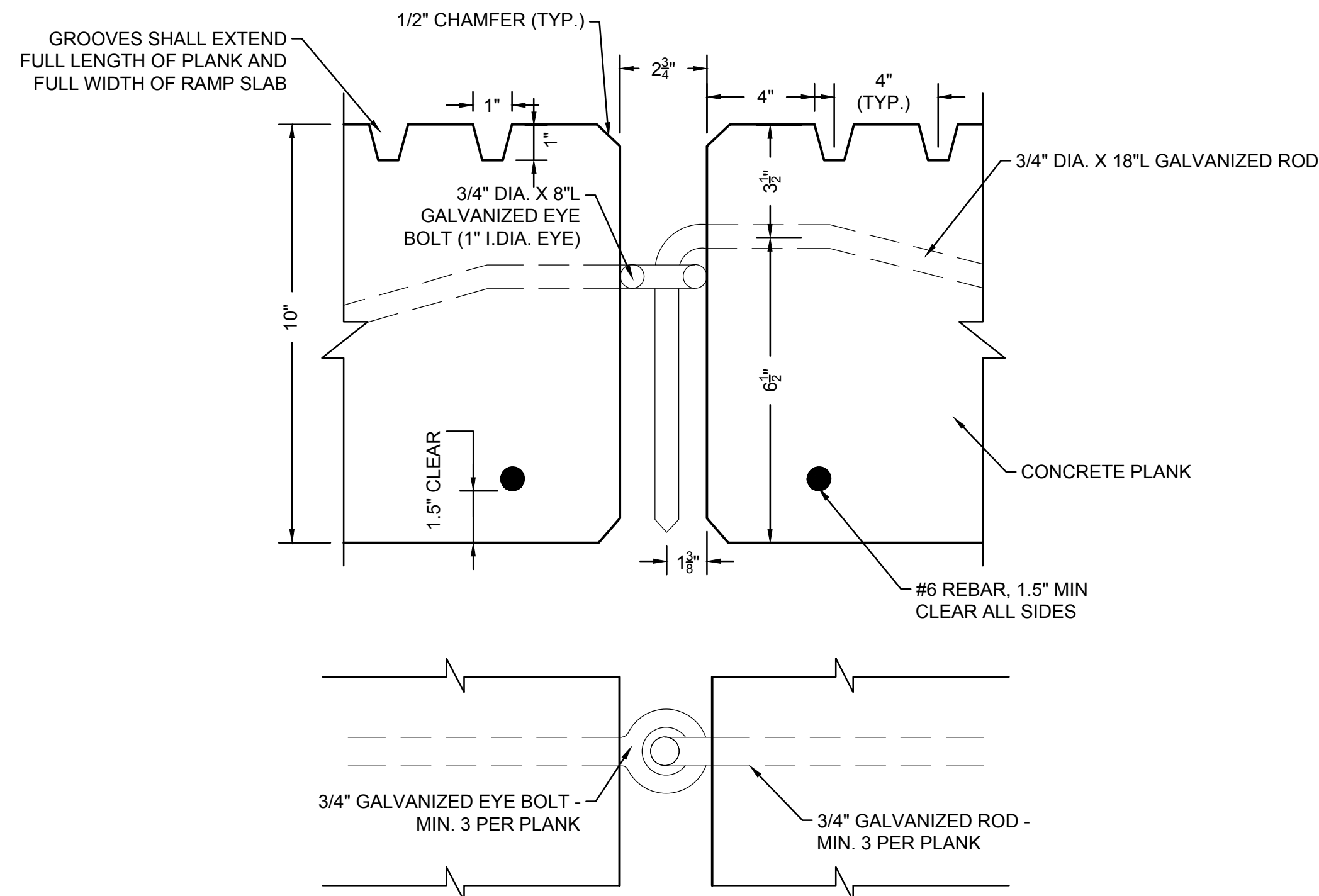
3 **BOAT LAUNCH PLANK LAYOUT**
SCALE: N.T.S.



4 **BOAT LAUNCH LIFTING HOOK**
SCALE: N.T.S.



2 **BOAT LAUNCH CONCRETE SLAB**
SCALE: N.T.S.



5 **BOAT LAUNCH PLANK PIN**
SCALE: N.T.S.

Project:

TOWN OF DARIEN

COUNTY OF FAIRFIELD
STATE OF CONNECTICUT

PEAR TREE POINT PARK IMPROVEMENTS

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STATE OF CONNECTICUT
DANIEL P. BIGGS
NO. 15296
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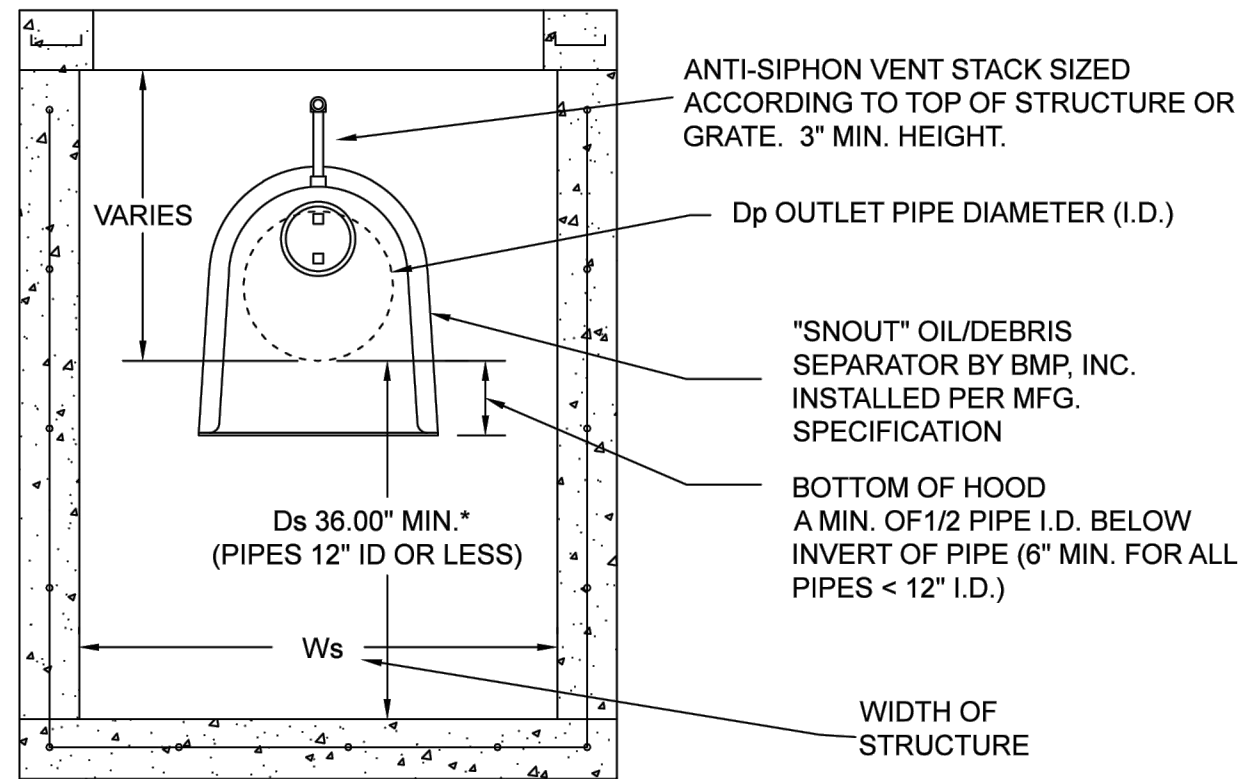
Drawing Title:

BOAT LAUNCH DETAILS

Sheet Number:

C504

STRUCTURE DESIGN FOR WATER QUALITY IMPROVEMENT



RULE #1- AT AN ABSOLUTE MINIMUM, STRUCTURE INTERNAL DIMENSIONS MUST BE AT LEAST LARGE ENOUGH TO ACCOMMODATE EXTERNAL DIMENSIONS OF THE SNOUT, AND ALLOW FOR A PERSON TO INSTALL IT. REFER TO BMP, INC. CAD DETAILS FOR PART DIMENSIONS. BMP RECOMMENDS STRUCTURE WALL TO BE AT LEAST 12" WIDER THAN MAXIMUM SNOUT WIDTH. FOR TRASHSCREEN, STRUCTURE MUST BE AT LEAST 6" WIDER THAN TRASHSCREEN WIDTH.

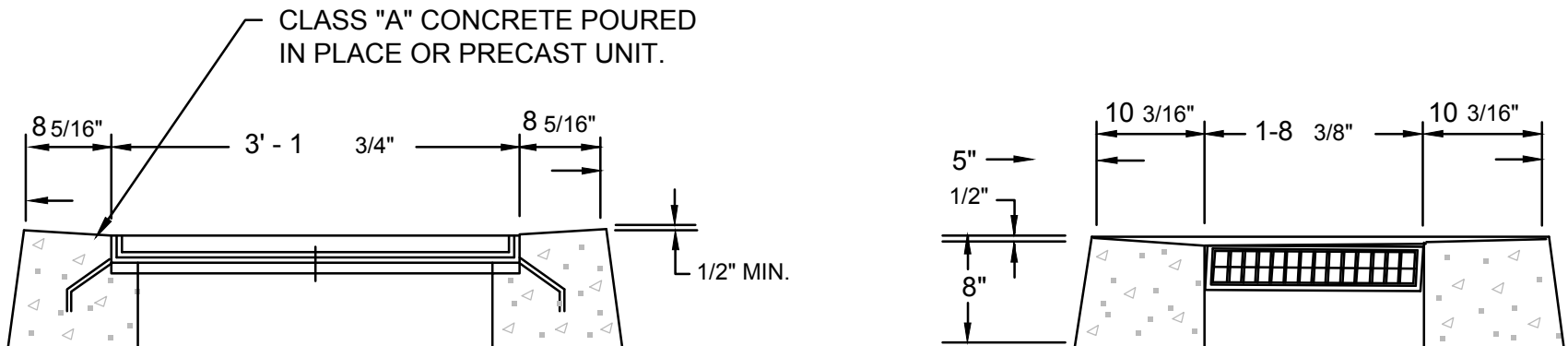
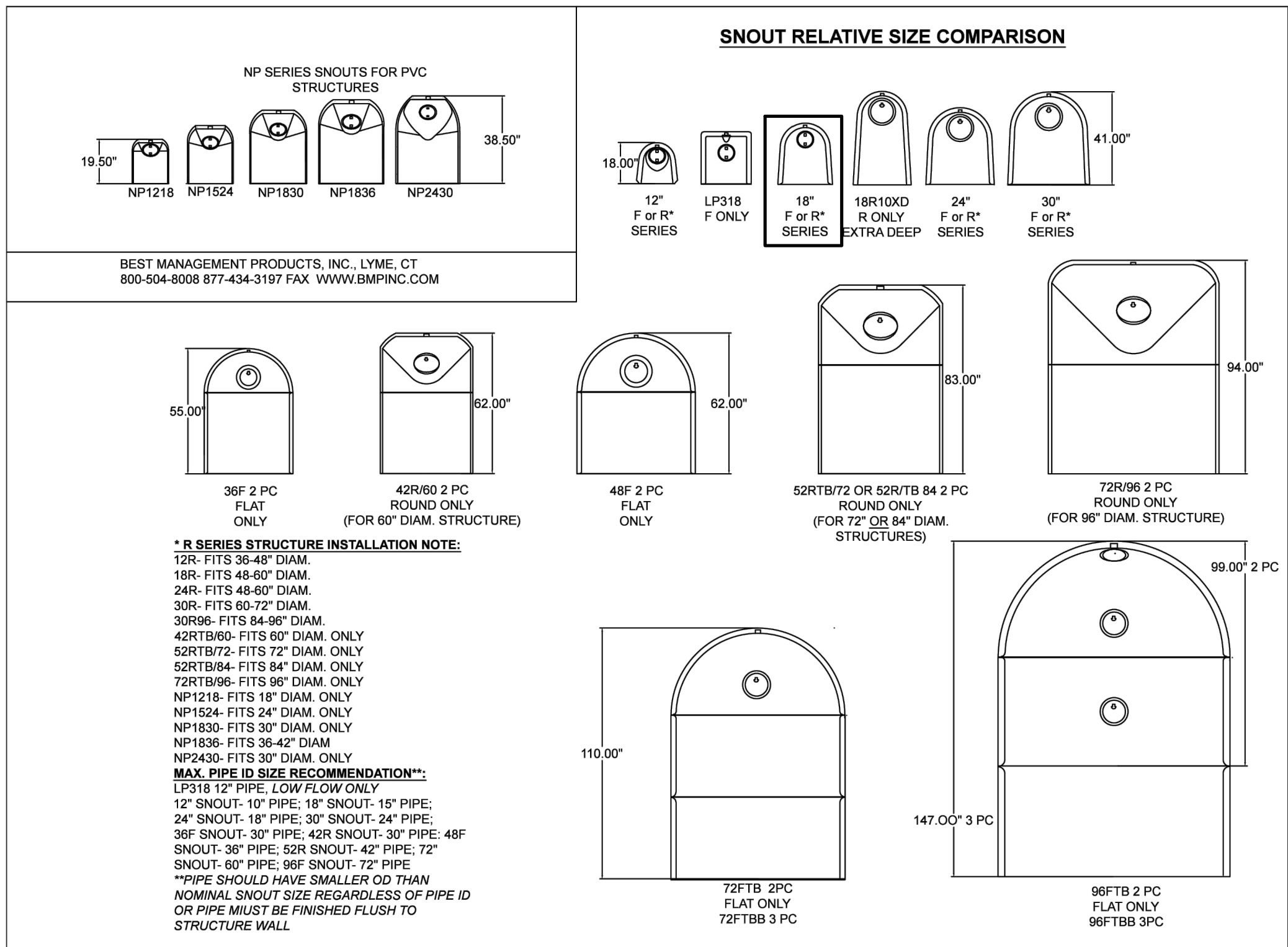
RULE #2- USE ONLY "F" SERIES SNOUTS FOR RECTANGULAR OR SQUARE STRUCTURES, AVAILABLE IN 12", 18", 24", 30", 36", 48", 72" AND 96" SIZES. USE ONLY "R" SERIES SNOUTS FOR ROUND STRUCTURES, AVAILABLE IN 12", 18", 24", 30", 42", 52" AND 72" SIZES.

***SUMP DEPTH (Ds)** SUMP DEPTH SHOULD BE A MINIMUM OF 36" FOR ANY NEW CONSTRUCTION FOR PIPES 12" AND LESS. FOR 15"-18" PIPE MIN. DEPTH SHOULD BE 48". OPTIMAL SIZING IS AT LEAST 2.5X TO 3X OUTLET PIPE DIAMETER (Dp) FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY.

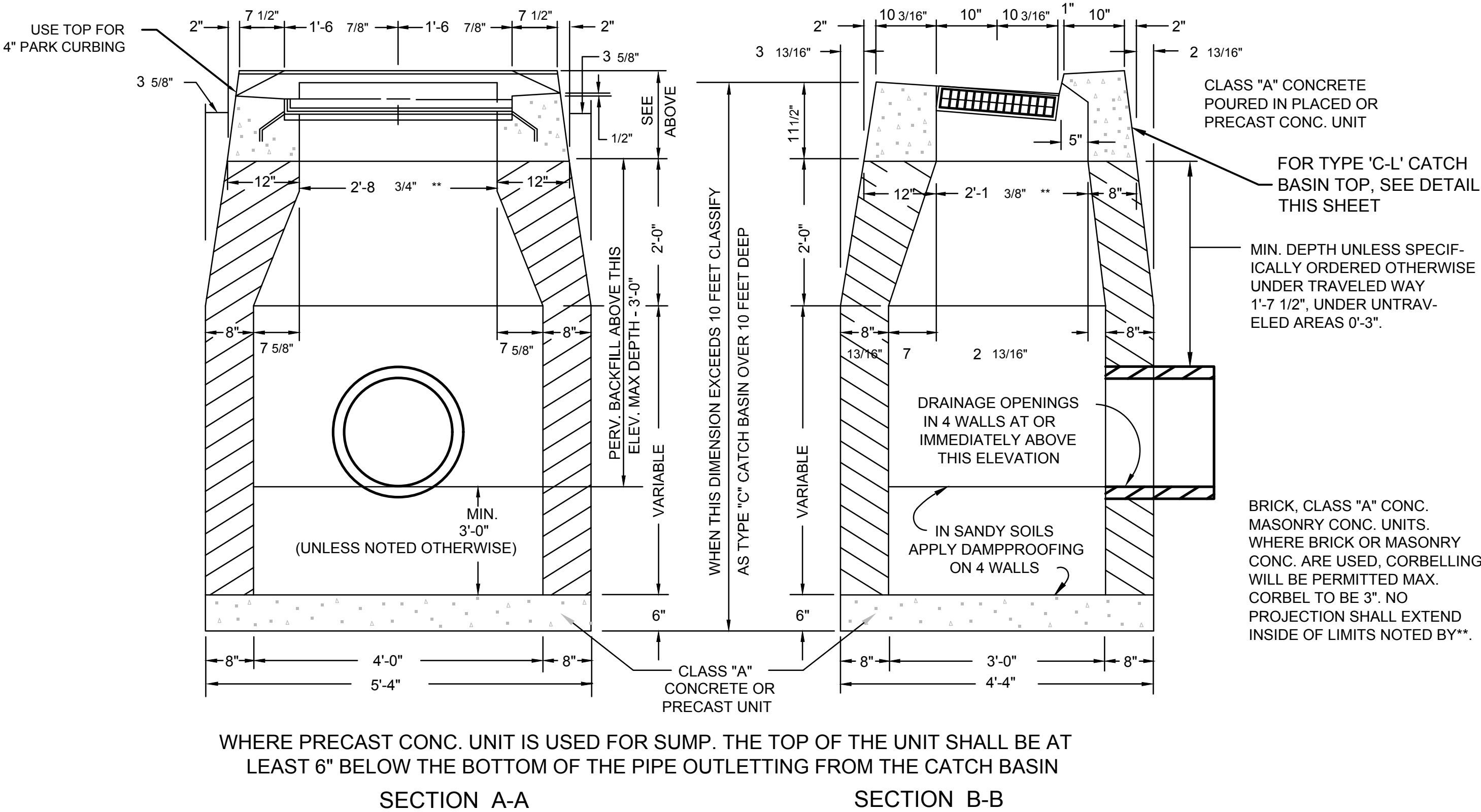
STRUCTURE DIMENSIONS- PLAN DIMENSIONS FOR A STRUCTURE SHOULD BE UP TO 7X AREA OF OUTLET PIPE FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY. FOR MANHOLES, SEE SIZING EXAMPLES BELOW FOR "R" SERIES SNOUTS.

IMPORTANT NOTICE: DO NOT CONFUSE PIPE SIZE WITH SNOUT SIZE. A SNOUT FITS OVER A PIPE, NOT IN IT. THUS, THE CORRECT SNOUT SIZE WILL ALWAYS BE BIGGER THAN THE PIPE SIZE. SNOUTS ARE AVAILABLE FOR ROUND STRUCTURES TO ACCOMMODATE PIPES OF 60" ID (71.9" OD), MAX. FOR PIPES 72" OD AND ABOVE, USE SQUARE STRUCTURES.

OUTLET HOLE SIZE	SNOUT SIZE	NPSNOUT (FOR PVC OR SMALL DIAM. STRUCTURE)
11.9" O.D. OR LESS	12" F or R (R FITS 36" O.D. DIAM STRUCTURE)	UP TO 12" PIPE IN 48" ID STRUCTURE NP4248
12.0" - 17.9" O.D.	18" F or R (R FITS 48" O.D. DIAM STRUCTURE)	UP TO 18" PIPE IN 60" ID STRUCTURE NP1860
18.0" - 23.9" O.D.	24" F or R (R FITS 60" O.D. DIAM STRUCTURE)	UP TO 24" PIPE IN 84" ID STRUCTURE NP2484
24.0" - 29.9" O.D.	30" F or R (R FITS 72" O.D. DIAM STRUCTURE)	UP TO 30" PIPE IN 96" ID STRUCTURE NP3096
30.0" - 35.9" O.D.	36" F or R (R FITS 84" O.D. DIAM STRUCTURE)	UP TO 36" PIPE IN 108" ID STRUCTURE NP36108
36.0" - 41.9" O.D.	42" F or R (R FITS 96" O.D. DIAM STRUCTURE ONLY)	UP TO 42" PIPE IN 144" ID STRUCTURE NP42144
42.0" - 47.9" O.D.	48" F or R (R FITS 108" O.D. DIAM STRUCTURE ONLY)	UP TO 48" PIPE IN 168" ID STRUCTURE NP48168
48.0" - 53.9" O.D.	54" F or R (R FITS 120" O.D. DIAM STRUCTURE ONLY)	UP TO 54" PIPE IN 180" ID STRUCTURE NP54180
54.0" - 59.9" O.D.	60" F or R (R FITS 132" O.D. DIAM STRUCTURE ONLY)	UP TO 60" PIPE IN 216" ID STRUCTURE NP60216
60.0" - 65.9" O.D.	66" F or R (R FITS 144" O.D. DIAM STRUCTURE ONLY)	UP TO 66" PIPE IN 252" ID STRUCTURE NP66252
66.0" - 71.9" O.D.	72" F or R (R FITS 156" O.D. DIAM STRUCTURE ONLY)	UP TO 72" PIPE IN 288" ID STRUCTURE NP72288
72.0" - 77.9" O.D.	78" F or R (R FITS 168" O.D. DIAM STRUCTURE ONLY)	UP TO 78" PIPE IN 324" ID STRUCTURE NP78324
78.0" - 83.9" O.D.	84" F or R (R FITS 180" O.D. DIAM STRUCTURE ONLY)	UP TO 84" PIPE IN 360" ID STRUCTURE NP84360

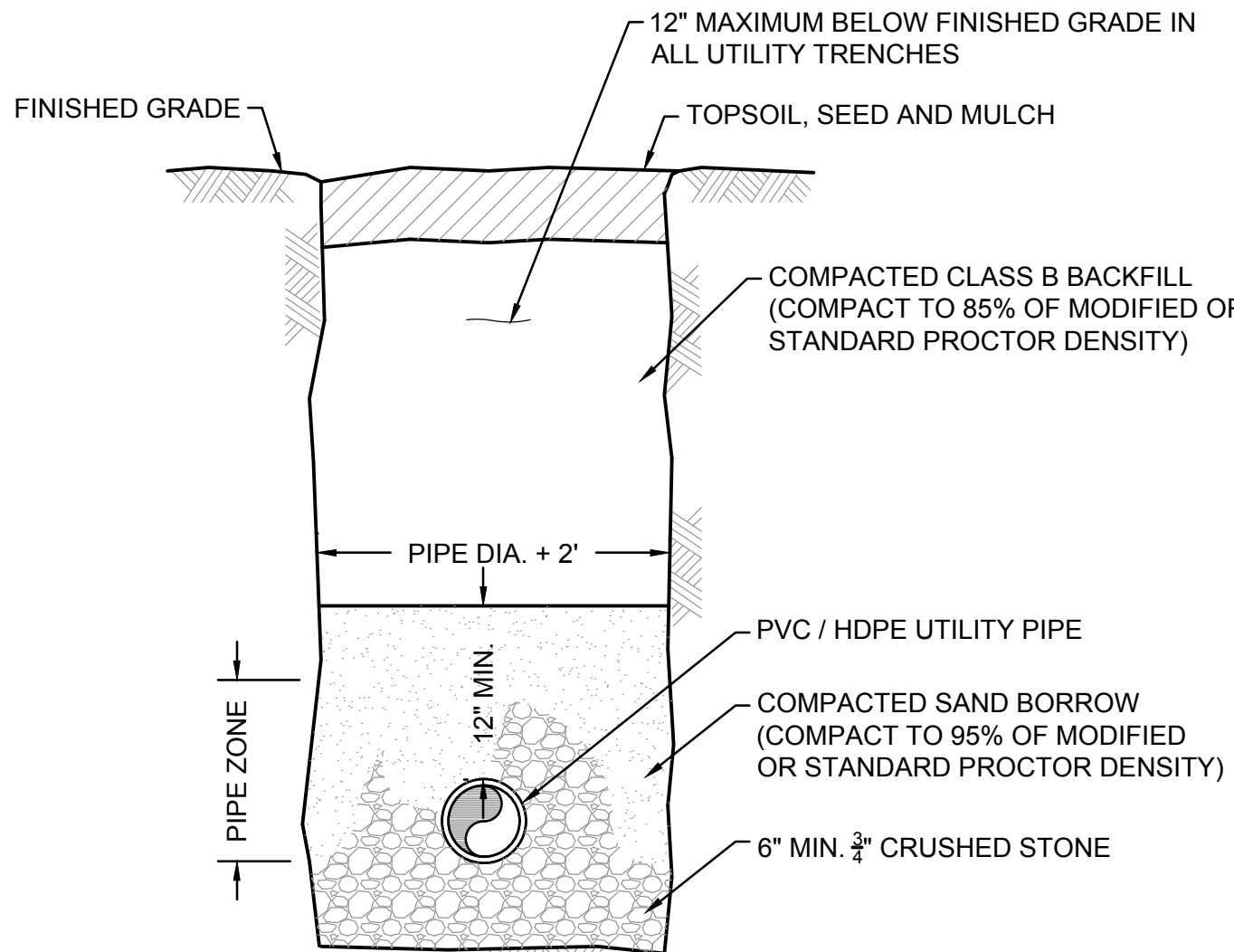


TYPE "C-L" CATCH BASIN
N.T.S.

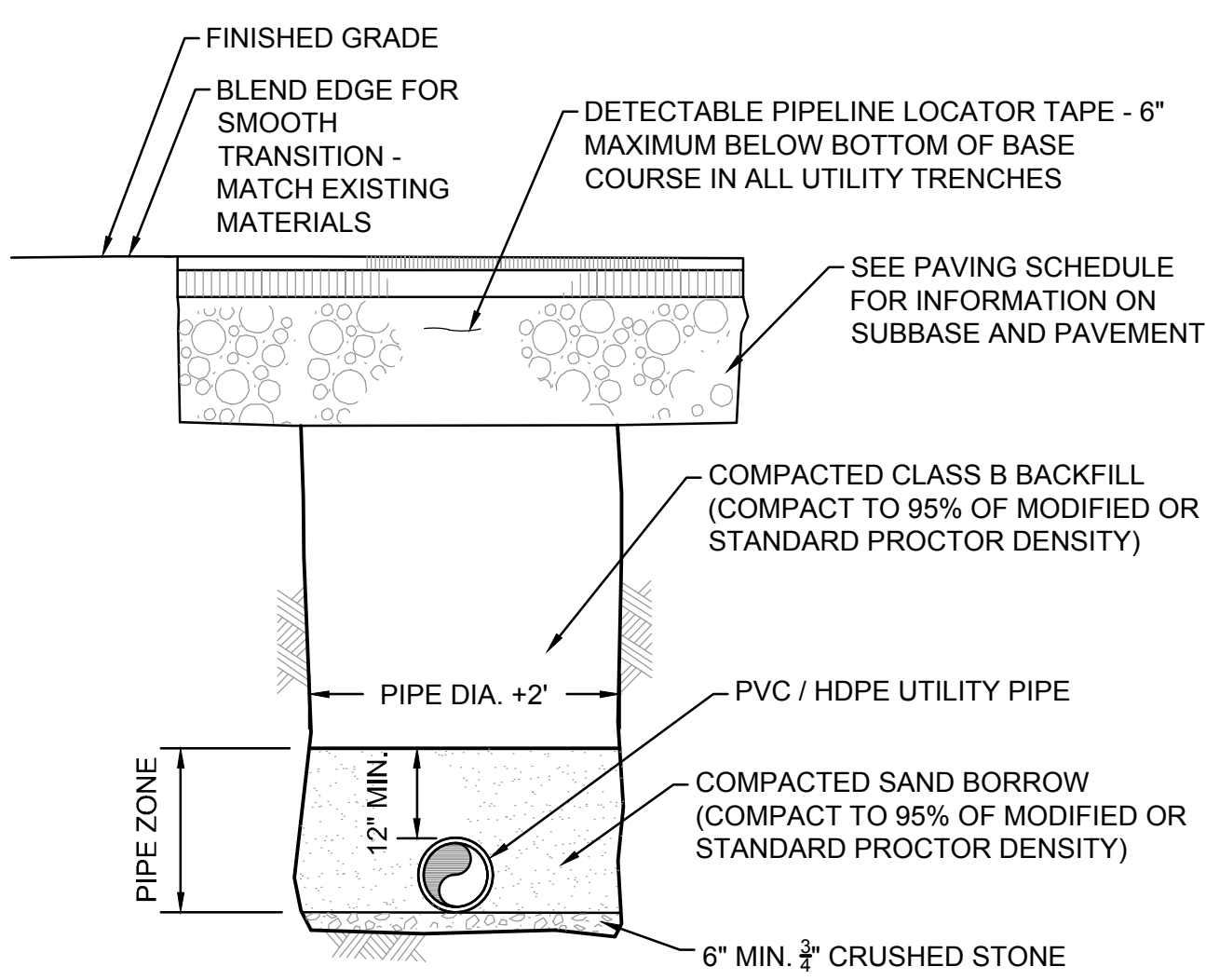


TYPE "C" CATCH BASIN

1 STORM STRUCTURE 'SNOUT'
SCALE: N.T.S.



2 UNPAVED UTILITY TRENCH
SCALE: N.T.S.



3 PAVED UTILITY TRENCH
SCALE: N.T.S.

4 CATCH BASIN
SCALE: N.T.S.

Project:

TOWN OF DARIEN

COUNTY OF FAIRFIELD
STATE OF CONNECTICUT

PEAR TREE POINT PARK IMPROVEMENTS

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STATE OF CONNECTICUT
DANIEL P. BIGLEY
NO. 12296
LANDSCAPE ARCHITECT

COA:

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Approved By: DPB

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W&S File No.:

Drawing Title:

UTILITY DETAILS

Sheet Number:

C505

PROTECTION OF TREES:

PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:

- A. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND INDIVIDUAL TREES IDENTIFIED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRIPLINE OR EXTENT OF CANOPY COVER.
- B. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.
- C. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB-CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.
- D. EVERY EFFORT SHALL BE EXERCISED TO AVOID NEGATIVELY AFFECTING THE STRUCTURAL AND FEEDER ROOTS OF TREES TO REMAIN. DO NOT CUT ROOTS WITHOUT ARCHITECT'S APPROVAL.

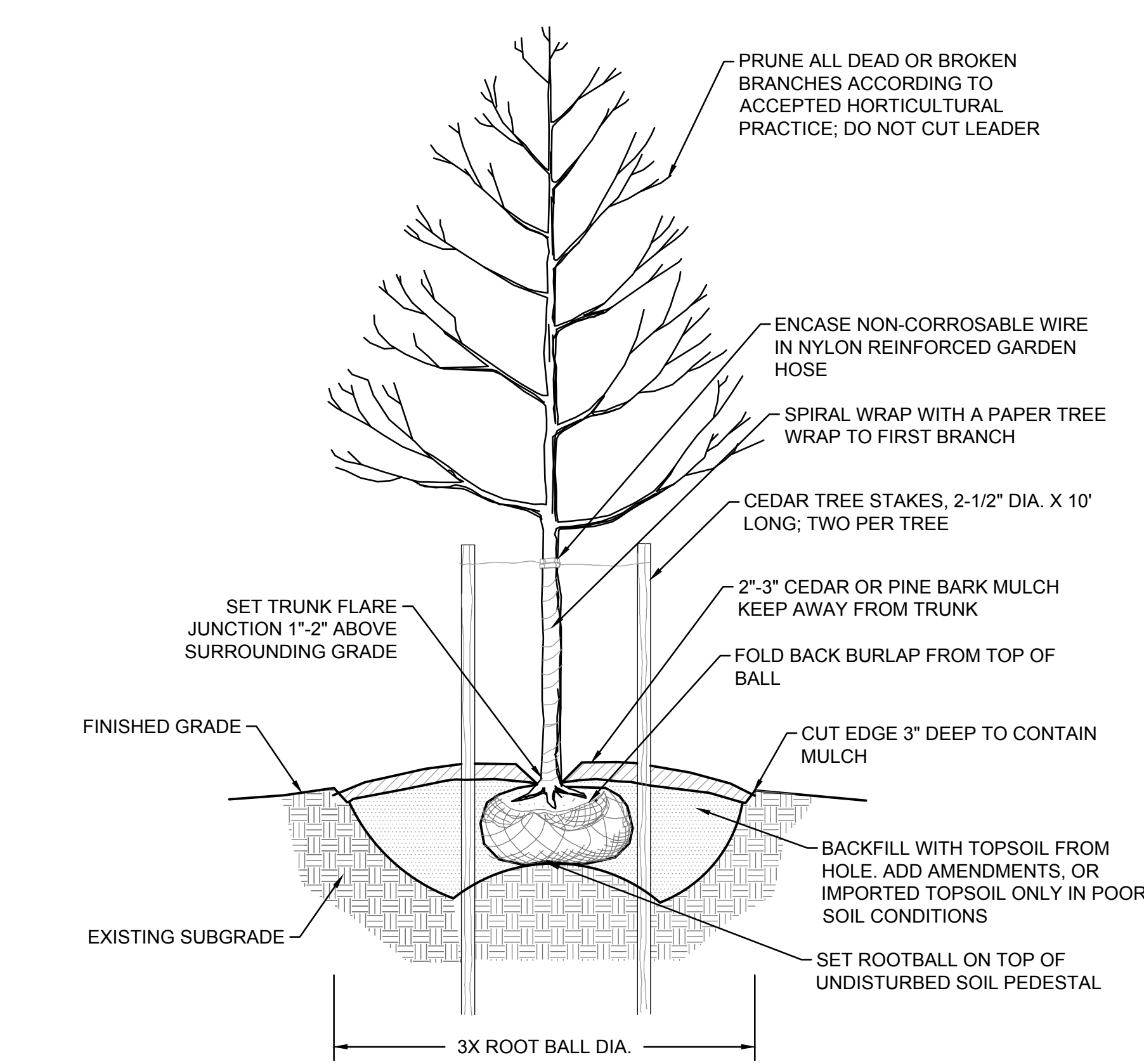
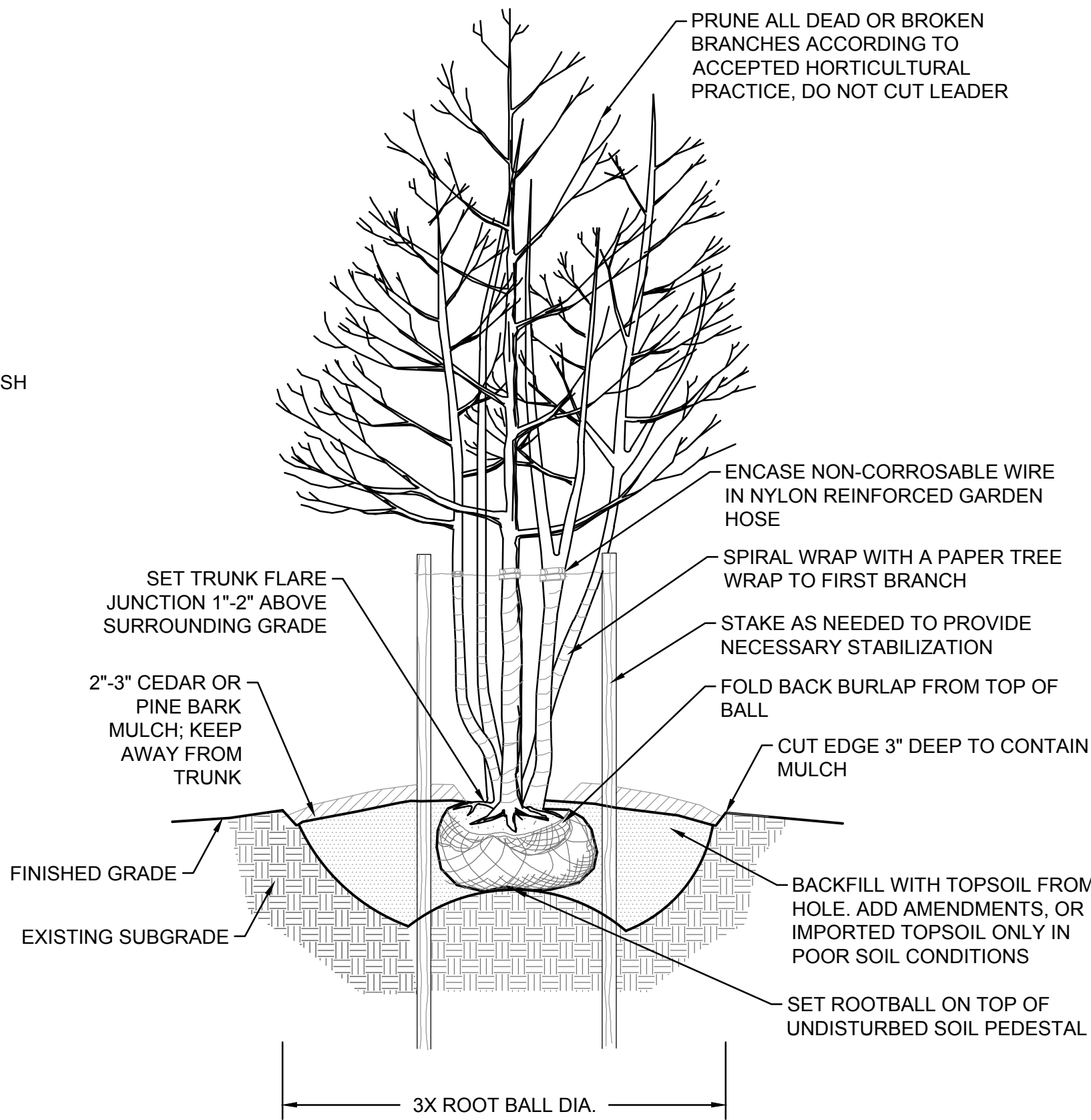
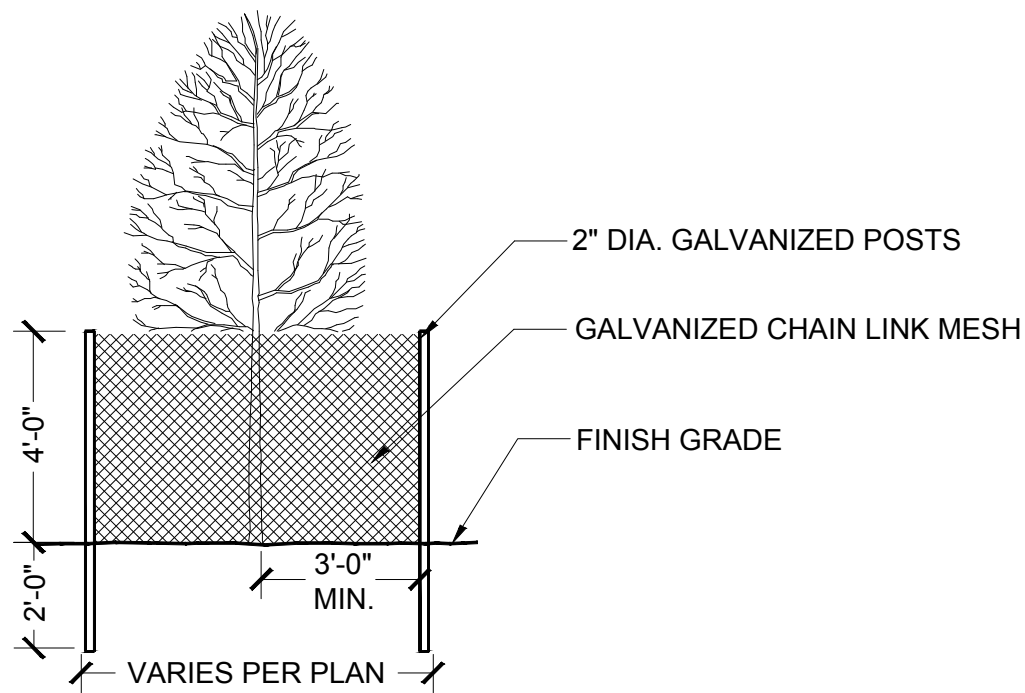
REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

LANDSCAPE REPLACEMENT:

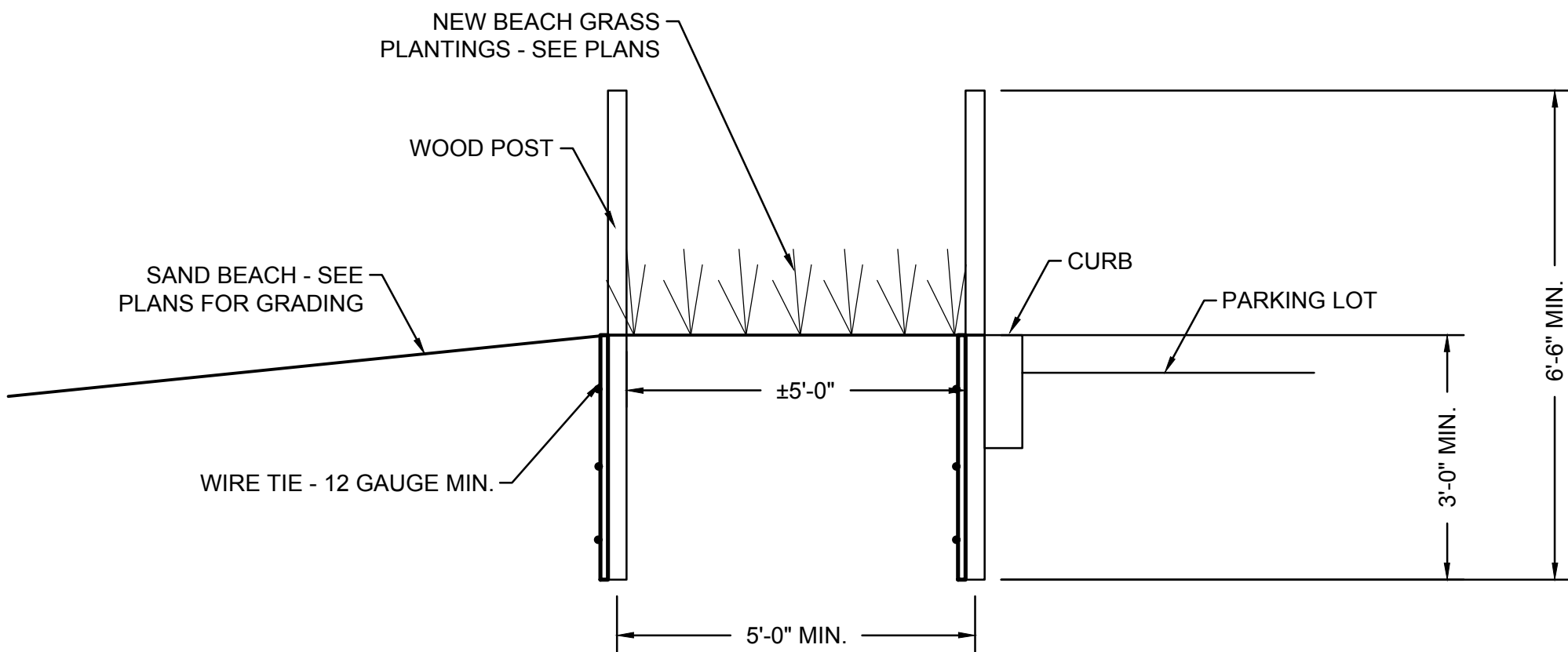
REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAMAGED TREES AND LANDSCAPE FEATURES. OBTAIN OWNER/ARCHITECT'S APPROVAL BEFORE REPLACEMENT. REPLACEMENT OF TREES SHALL OCCUR ON A ONE-TO-ONE BASIS.

NOTE:

OUTSIDE EDGE OF GUARD SHOULD BE PLACED AT DRIPLINE OR AS INDICATED ON DEMOLITION PLAN. GUARDS MAY BE PLACED AROUND SINGLE TREES OR GROUPS OF TREES AS SHOWN ON PLAN.



1 TREE PROTECTION
SCALE: N.T.S.



NOTES:

- STANDARD SAND FENCE TO BE A MINIMUM OF 4' IN HEIGHT
- STANDARD SAND FENCE TO BE FREE FROM DECAY, BROKEN WIRE AND MISSING SLATS
- WOOD POSTS TO BE A MINIMUM OF 6'-6" IN HEIGHT
- WOOD POSTS TO BE CONSTRUCTED FROM RED CEDAR, WHITE CEDAR, BLACK LOCUST OR OTHER WOOD WITH SIMILAR LIFE SPAN AND STRENGTH
- WIRE TIES TO BE USED TO CONNECT STANDARD SAND FENCE MUST HAVE AN EXACT COUNT OF 4
- WIRE TIES TO BE CONSTRUCTED FROM A MINIMUM OF 12 GAUGE WIRE
- STANDARD SAND FENCE TO BE PLACED A MINIMUM OF 10' APART ON CENTER
- FIRST STANDARD SAND FENCE TO BE INSTALLED A MINIMUM OF 140' FROM THE MHT LINE
- NEW VEGETATION TO BE 'CAPE' AMERICAN BEACH GRASS (AMMOPHILA BREVLIGULATA). ANY SUBSTITUTIONS FOR THIS SPECIES MUST BE APPROVED BY PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- NEW VEGETATION TO BE PLANTED A MINIMUM OF 20' SEAWARD FROM FIRST STANDARD SAND FENCE, AND 5' ON CENTER IN BETWEEN FIRST AND SECOND FENCE
- NEW VEGETATION TO BE PLANTED IN STRIPS PARALLEL TO FENCE LINE AND AT A MAXIMUM WIDTH OF 5'
- NEW VEGETATION TO BE PLANTED BETWEEN 12" AND 18" APART ON CENTER
- FIRST STANDARD SAND FENCE LINE TO BE BURIED A MINIMUM OF 3" IN SAND. ADDITIONAL SAND MAY BE BROUGHT FROM OTHER LOCATIONS ON SITE AS NEEDED TO ACHIEVE MINIMUM DEPTH
- WOOD POSTS TO BE BURIED A MINIMUM OF 1' IN SAND. ADDITIONAL SAND MAY BE BROUGHT FROM OTHER LOCATIONS ON SITE TO AS NEEDED TO ACHIEVE MINIMUM DEPTH
- SECOND LINE OF STANDARD SAND FENCE TO BE INSTALLED ONCE DUNE HAS REACHED A MINIMUM HEIGHT OF 3'-3"
- SLOW RELEASE 10-10-10 FERTILIZER TO BE APPLIED AT A RATE OF 100 LBS PER ACRE
- NITROGEN TO BE APPLIED AT A RATE OF 25-60 LBS PER ACRE, WITH HALF THE AMOUNT APPLIED IN SPRING BEFORE APRIL 1 AND HALF APPLIED IN FALL
- NEW VEGETATION TO BE INSTALLED BETWEEN NOVEMBER 1 AND APRIL 1

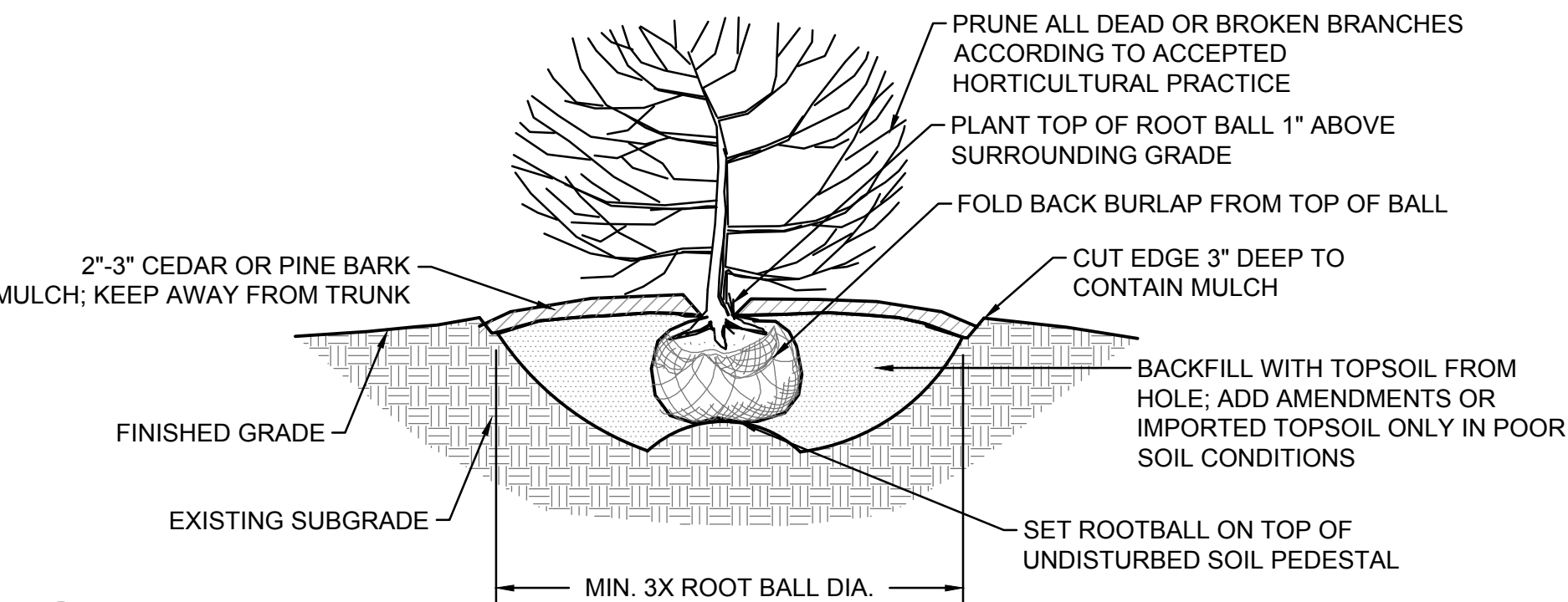
2 VEGETATED BEACH PLANTING
SCALE: N.T.S.

3 MULTI-STEM DECIDUOUS TREE PLANTING
SCALE: N.T.S.

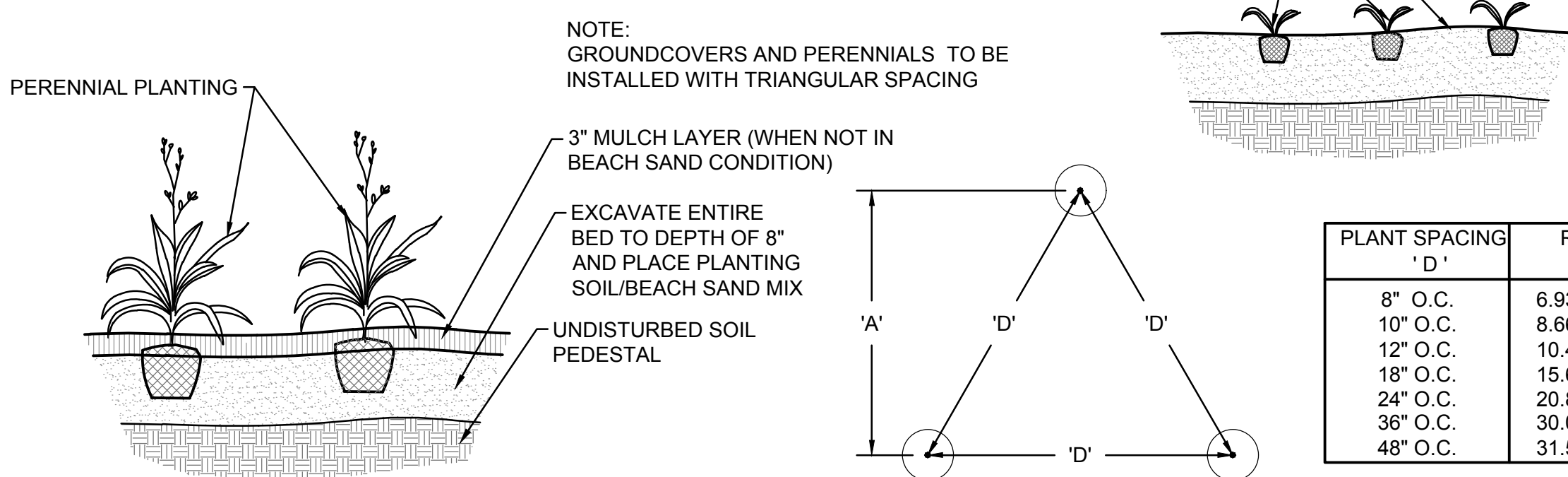
4 SINGLE-STEM DECIDUOUS TREE PLANTING
SCALE: N.T.S.

PLANTING SCHEDULE					
KEY	BOTANIC NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
TREES					
AC	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	5	8'-10' HT	BALL AND BURLAP, SALT TOLERANT
MV	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	5	8'-10' HT	UNIFORM BRANCHING, SALT TOLERANT
CA	OXYDENDRUM ARBOREUM	SOURWOOD	7	2.5' - 3.0' CAL	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
QA	QUERCUS ALBA	WHITE OAK	4	3.0' - 3.5' CAL	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
OP	QUERCUS PRINUS	CHESTNUT OAK	3	3.0' - 3.5' CAL	UNIFORM BRANCHING, 6" CLEAR TRUNK, SALT TOLERANT
PERENNIALS					
AB	AMMOPHILA BREVLIGULATA	AMERICAN BEACH GRASS	1,645	PLUG	12" O.C., NATIVE, SALT TOLERANT
DS	DISTICHILIS SPICATA	SPIKE GRASS	1,645	PLUG	12" O.C., NATIVE, SALT TOLERANT
WETLAND PLANTING					
DS	DISTICHILIS SPICATA	SPIKE GRASS	415	PLUG	18" O.C., NATIVE, SALT TOLERANT
SA	SPARTINA ALTERNIFLORA	SALT MARSH CORDGRASS	415	PLUG	18" O.C., NATIVE, SALT TOLERANT
SP	SPARTINA PATENS	SALT MEADOW CORDGRASS	415	PLUG	18" O.C., NATIVE, SALT TOLERANT

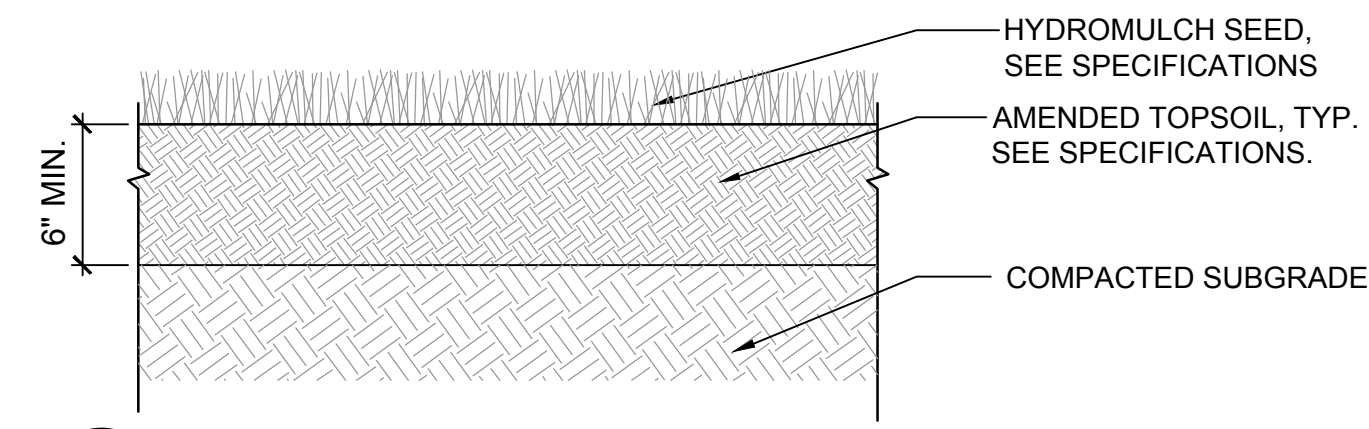
5 PLANTING SCHEDULE
SCALE: N.T.S.



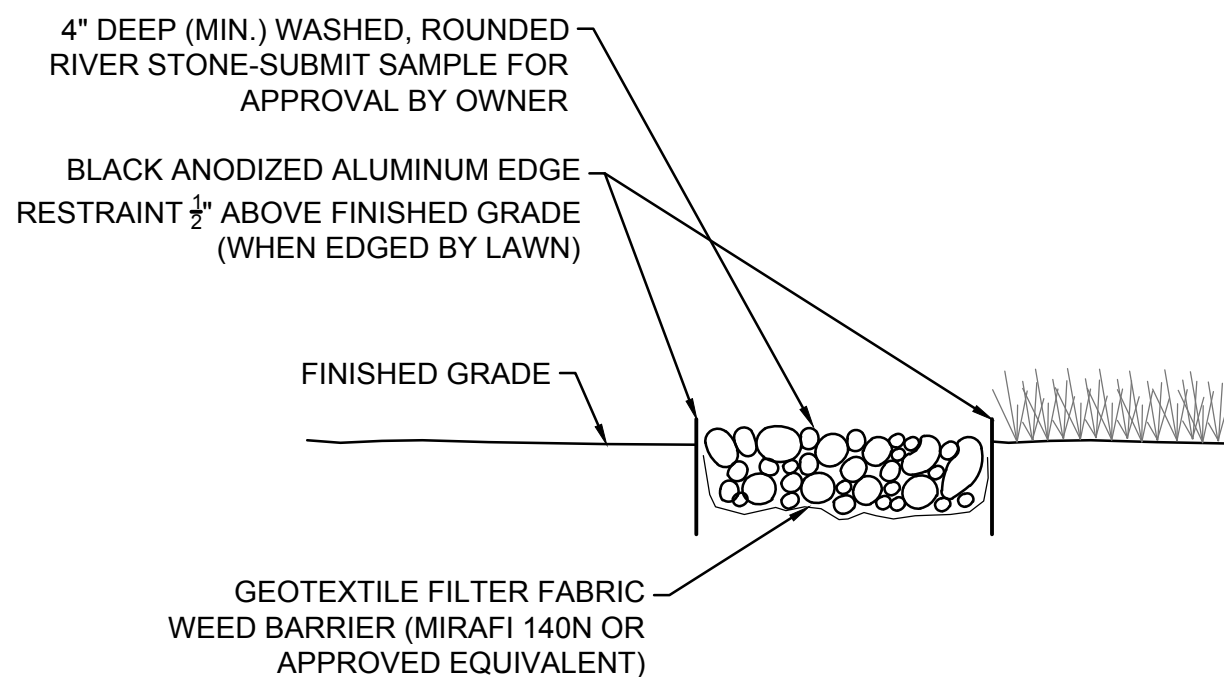
7 SHRUB PLANTING
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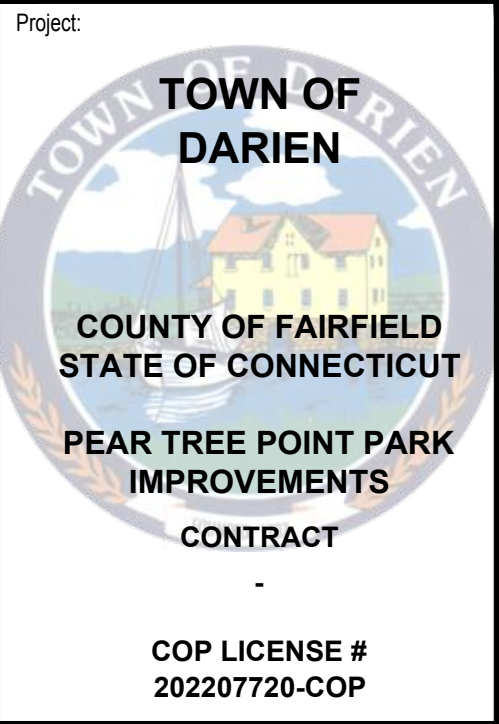
8 PERENNIAL PLANTING
SCALE: N.T.S.



6 LOAM AND SEED
SCALE: N.T.S.



9 STONE MULCH
SCALE: N.T.S.



Revisions:		
No.	Date	Description

